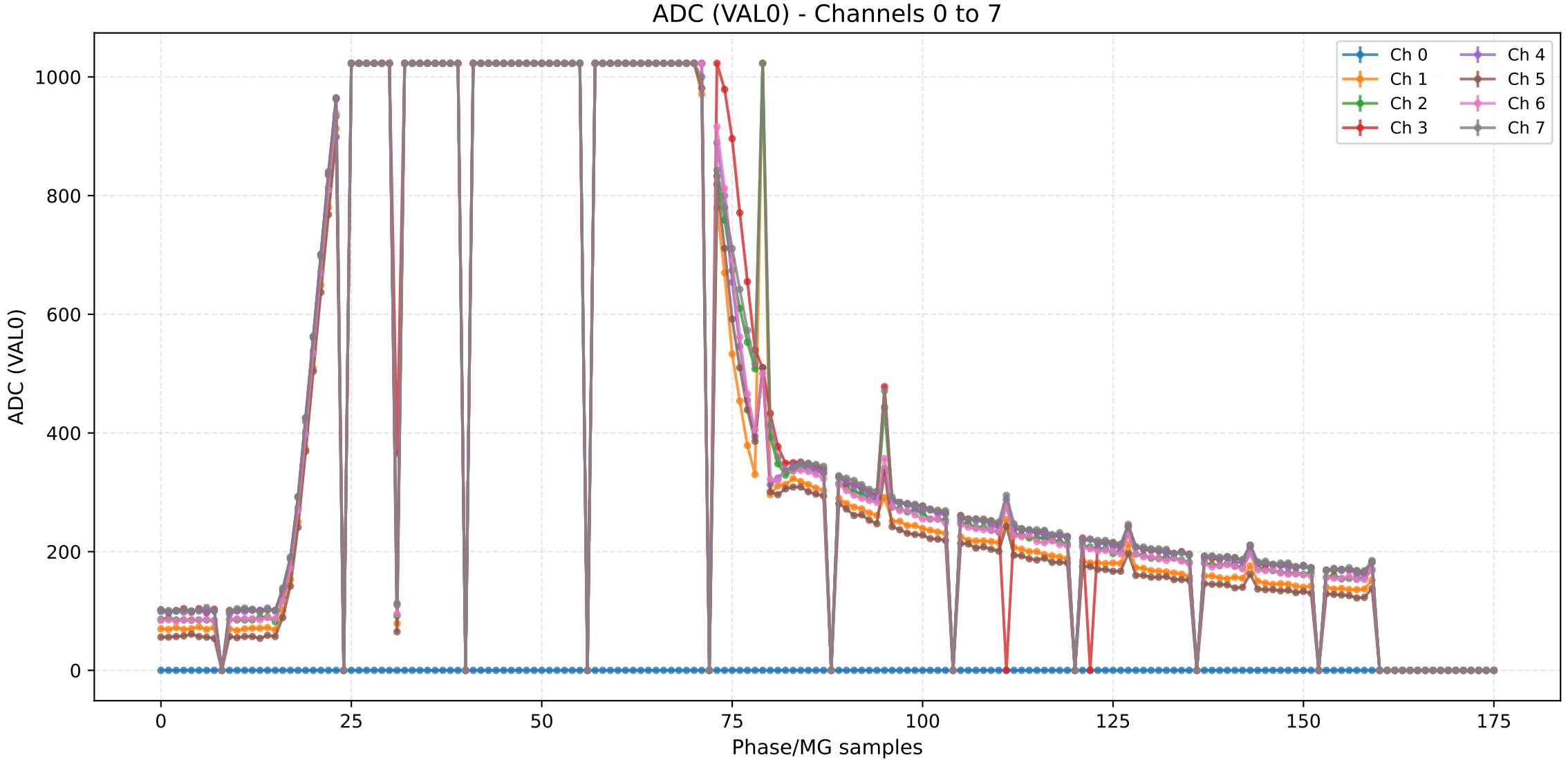
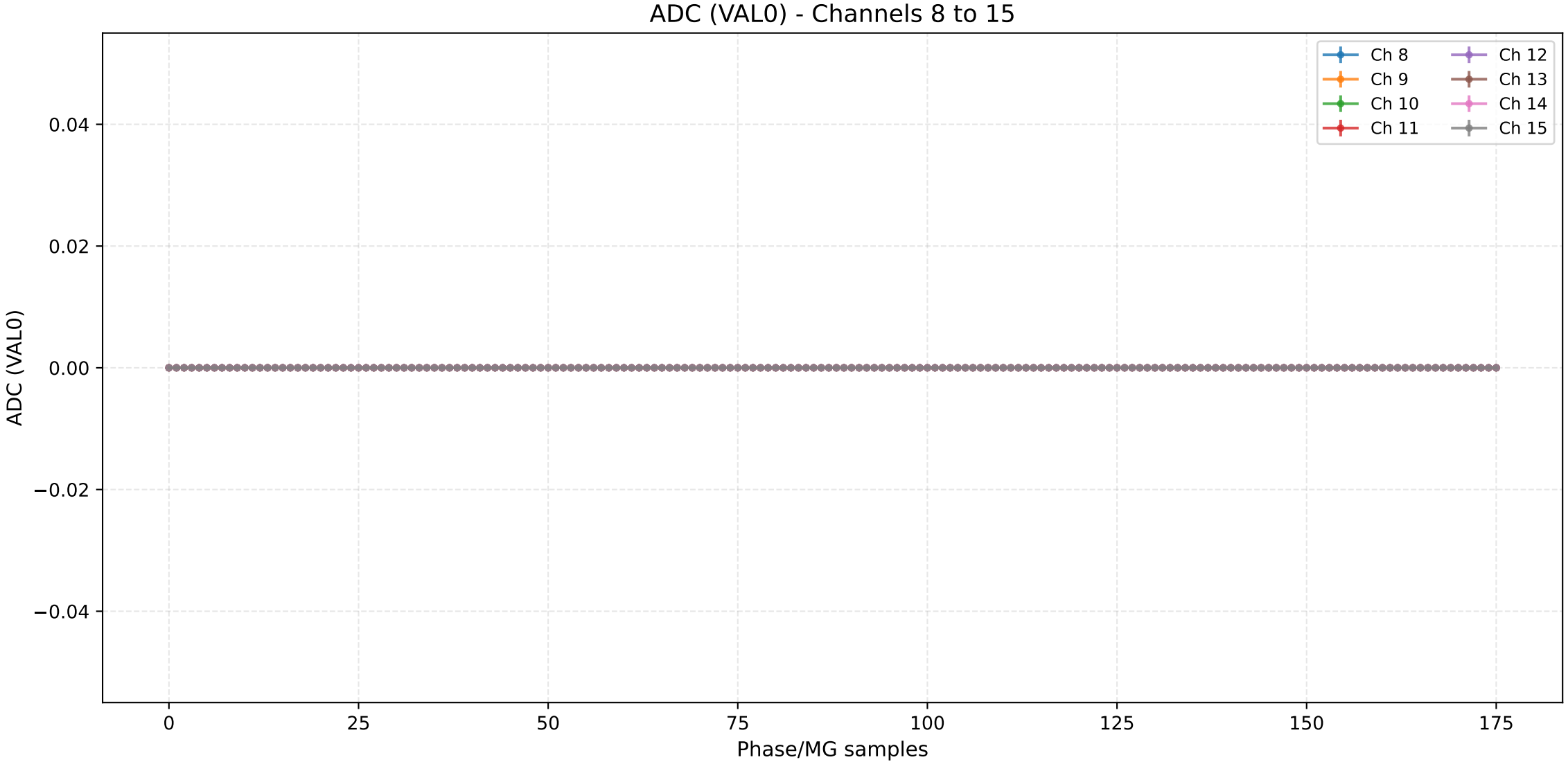
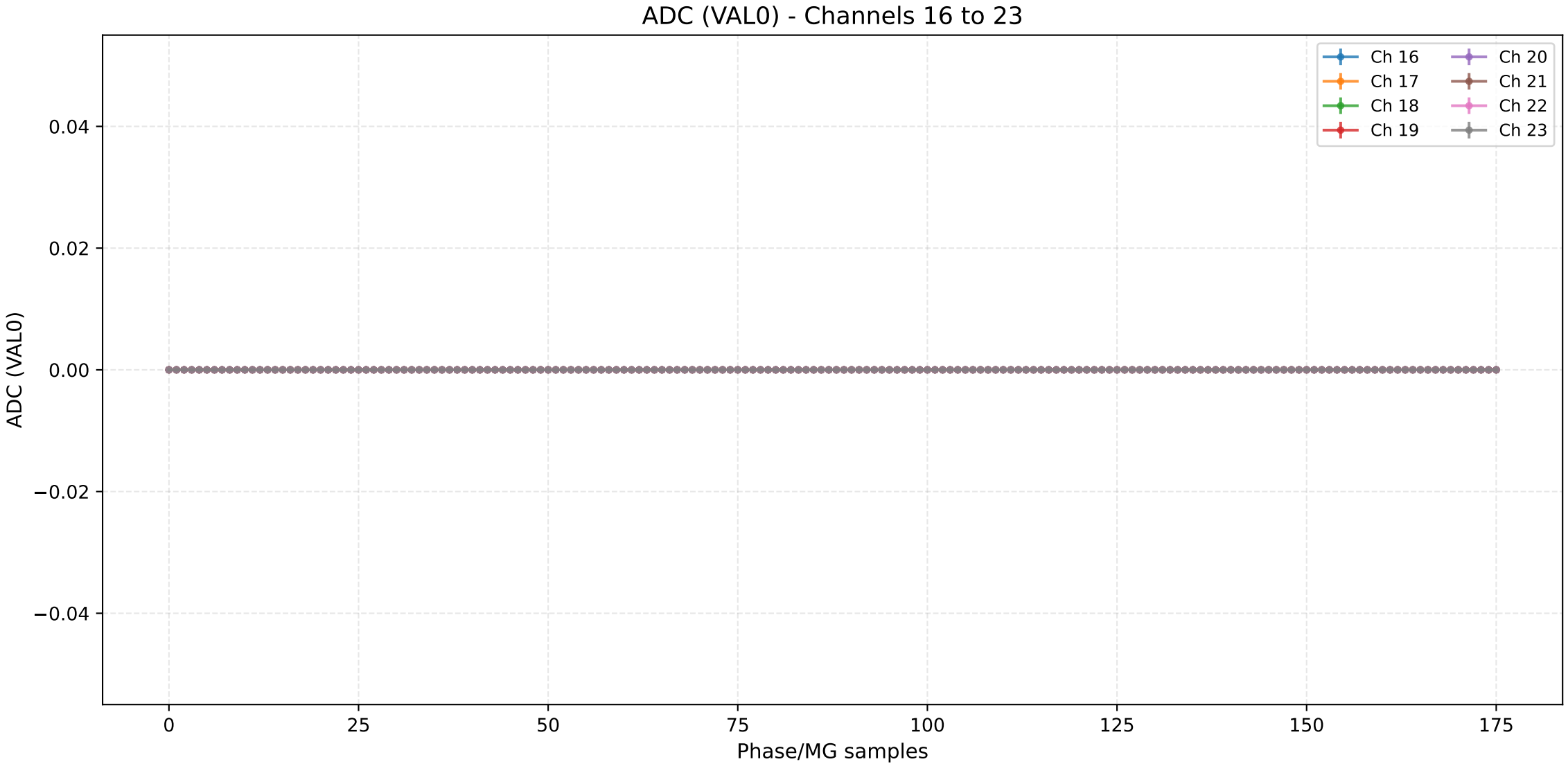
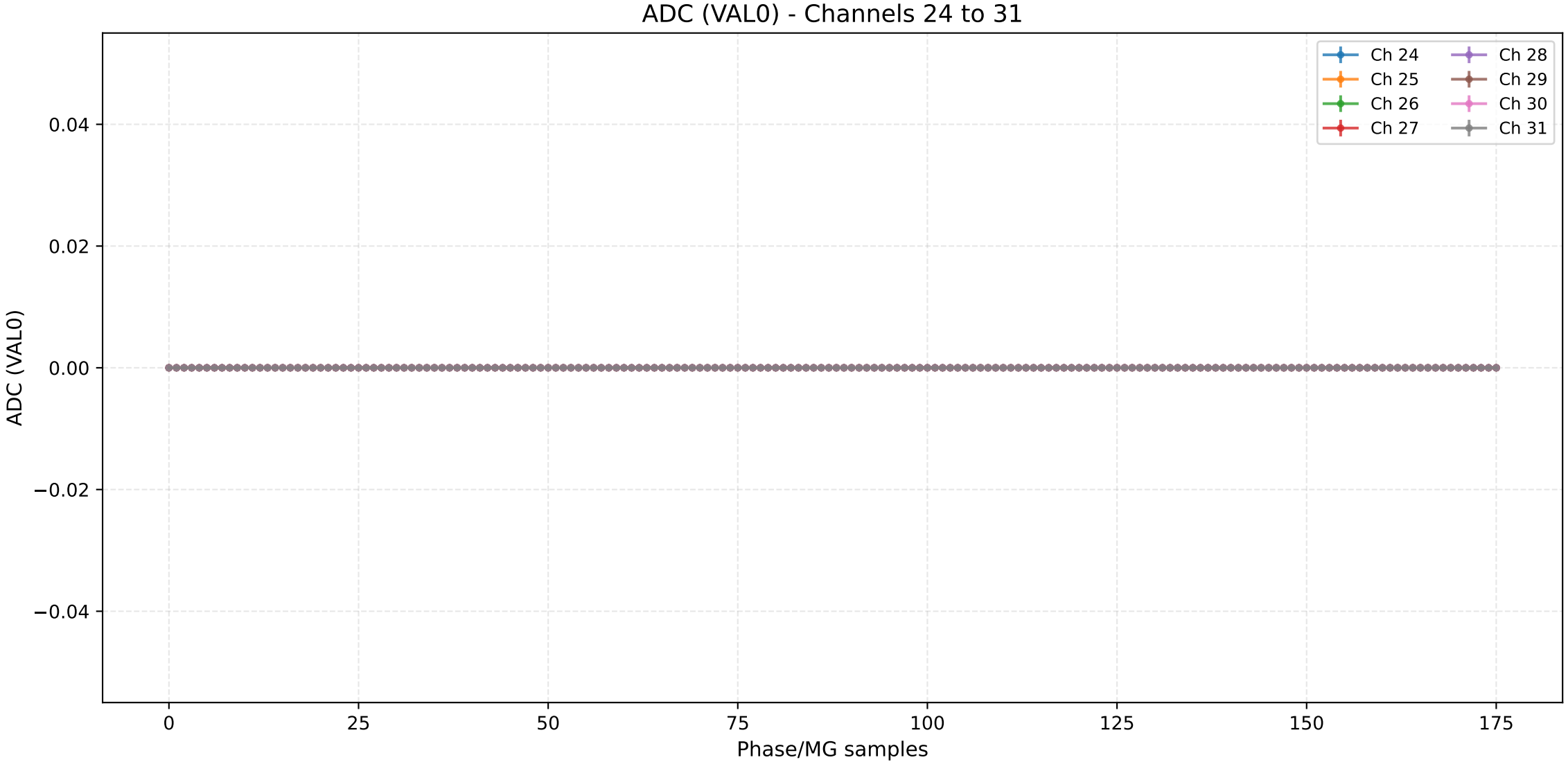
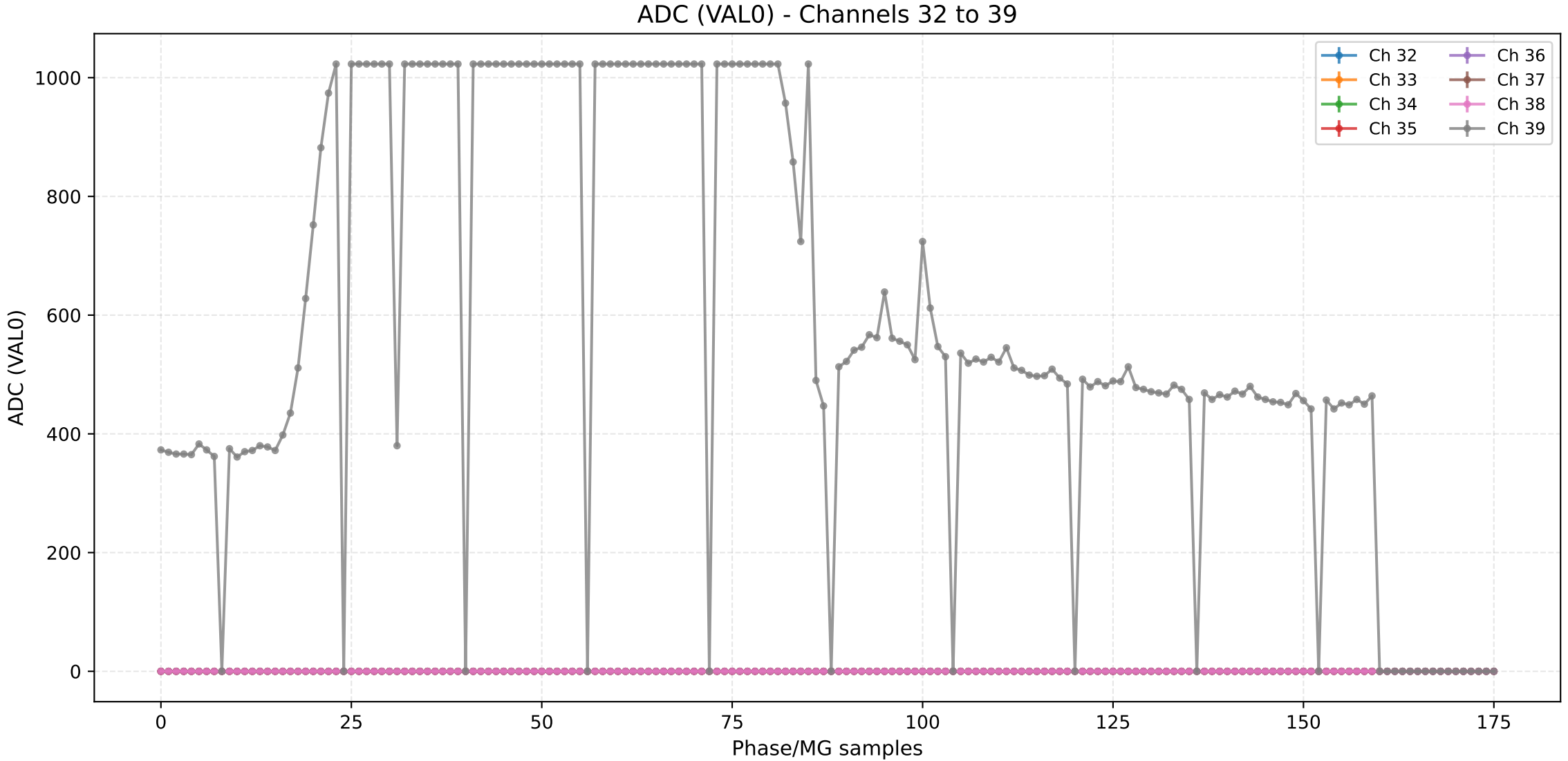
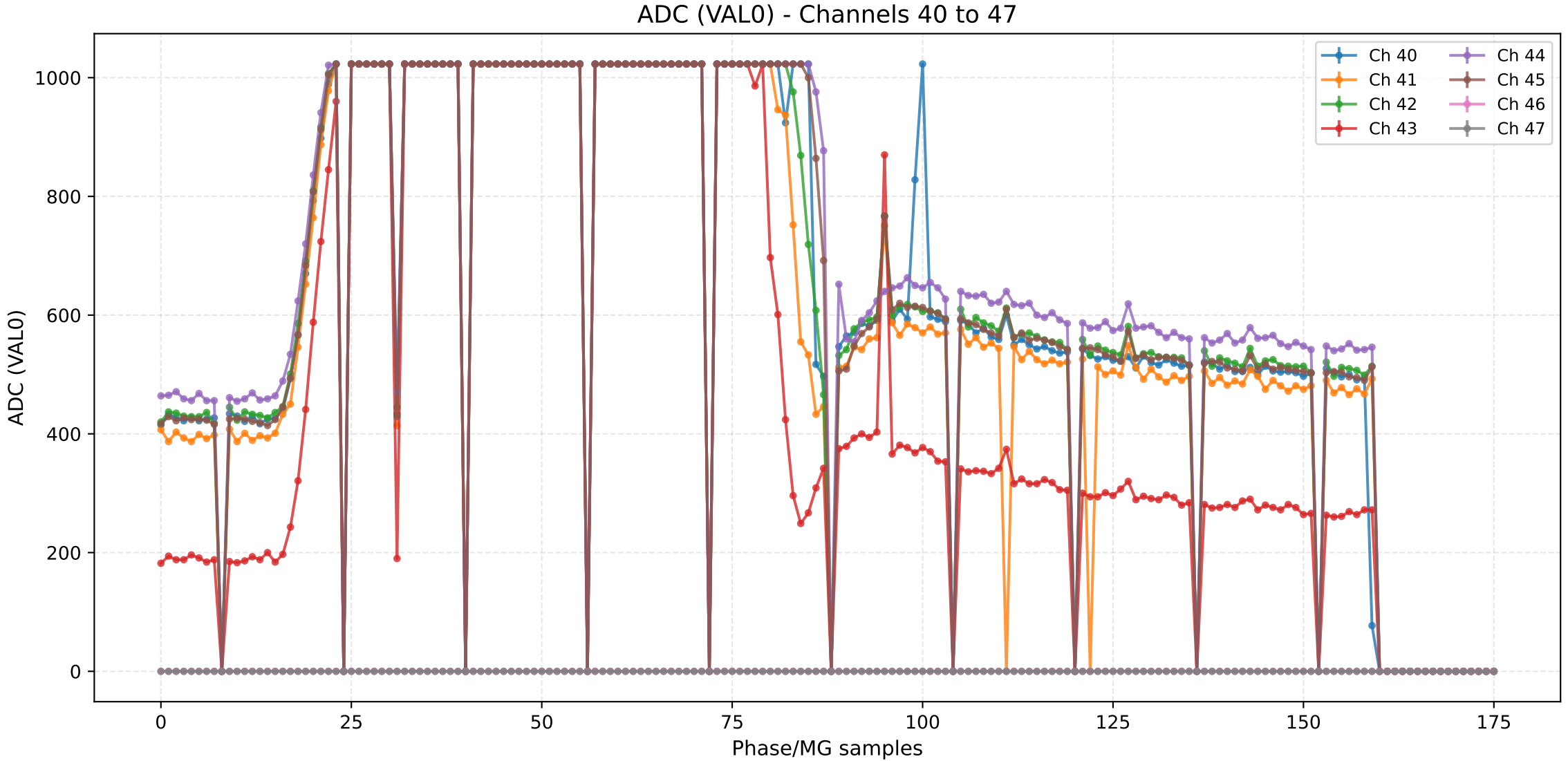

ADC (VAL0) - Channels 0 to 7
ADC (VAL0)
Phase/MG samples
Ch 0
Ch 1
Ch 2
Ch 3
Ch 4
Ch 5
Ch 6
Ch 7
0
200
400
600
800
1000
0
25
50
75
100
125
150
175

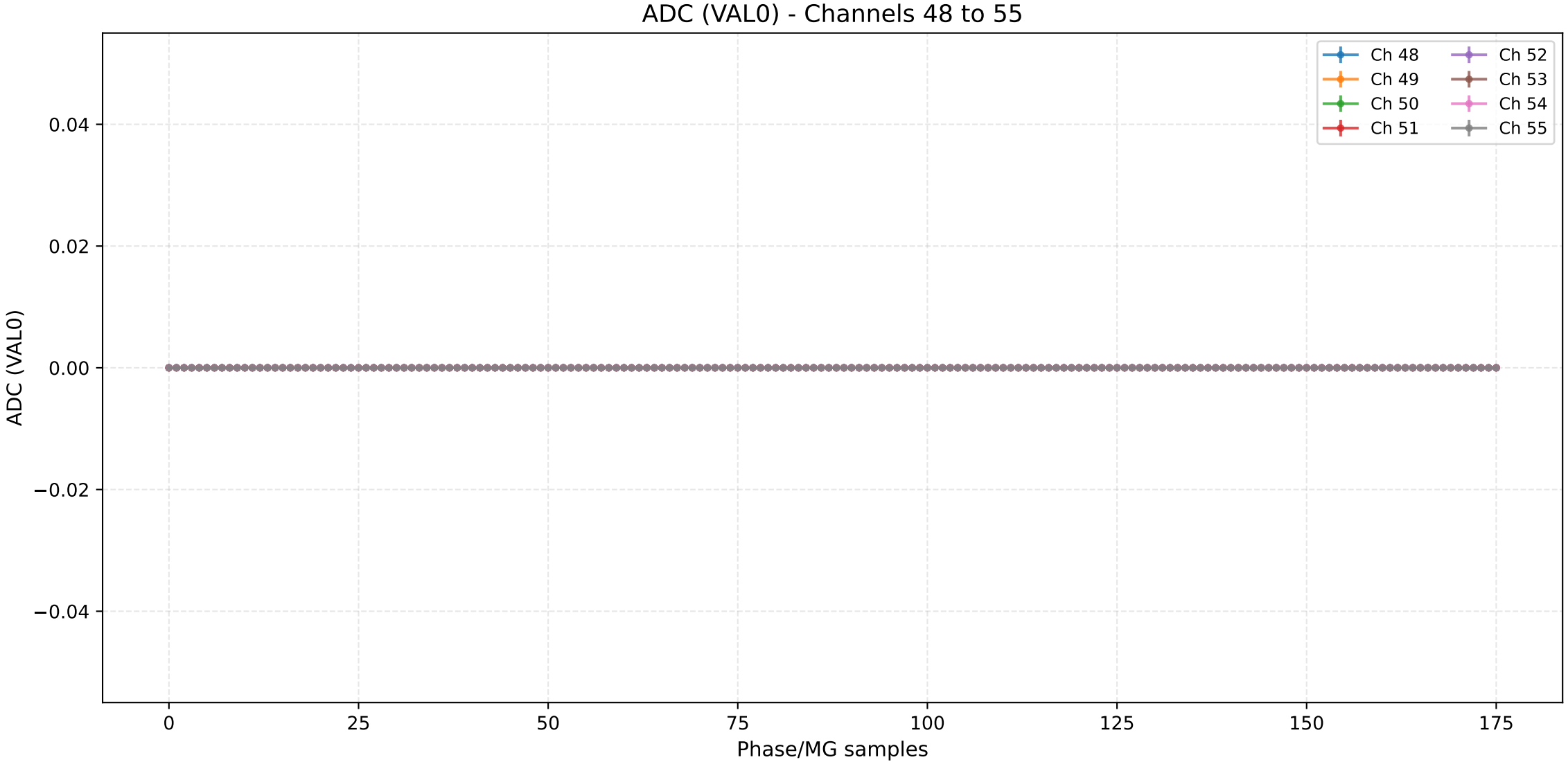

ADC (VAL0) - Channels 8 to 15
Ch 8
Ch 9
Ch 10
Ch 11
Ch 12
Ch 13
Ch 14
Ch 15
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

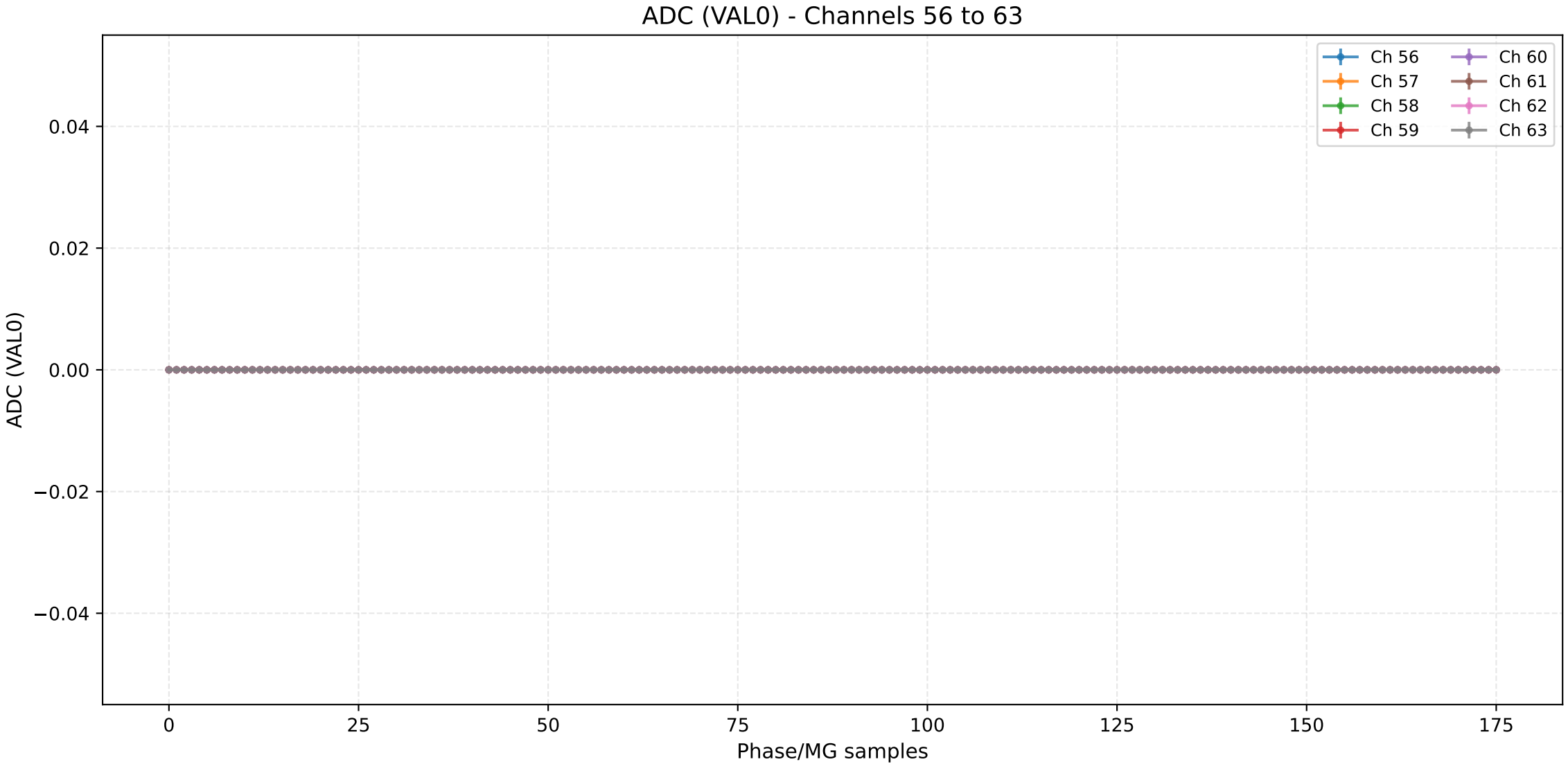

ADC (VAL0) - Channels 16 to 23
Ch 16
Ch 17
Ch 18
Ch 19
Ch 20
Ch 21
Ch 22
Ch 23
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

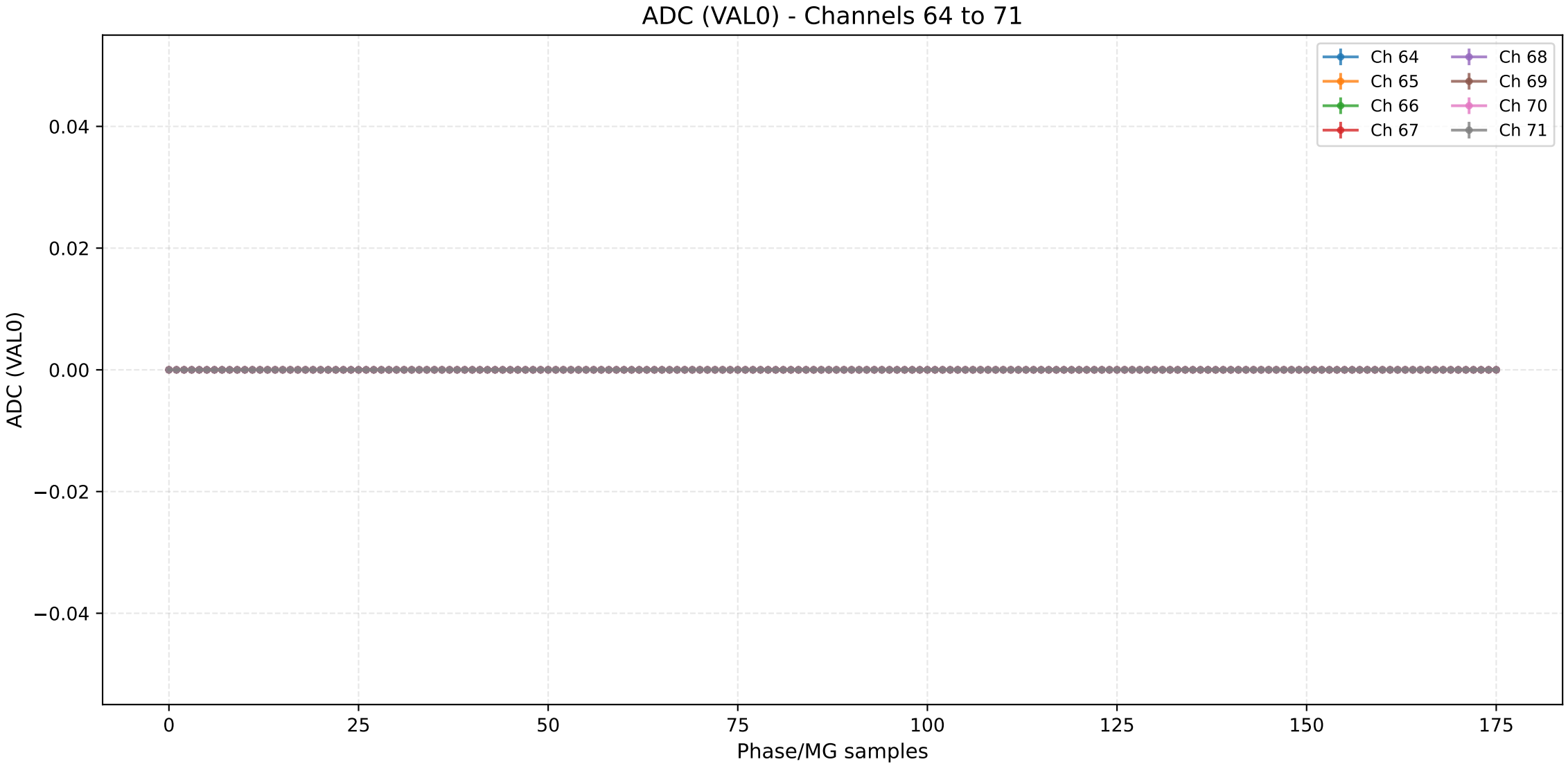

ADC (VAL0) - Channels 24 to 31
Ch 24
Ch 25
Ch 26
Ch 27
Ch 28
Ch 29
Ch 30
Ch 31
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

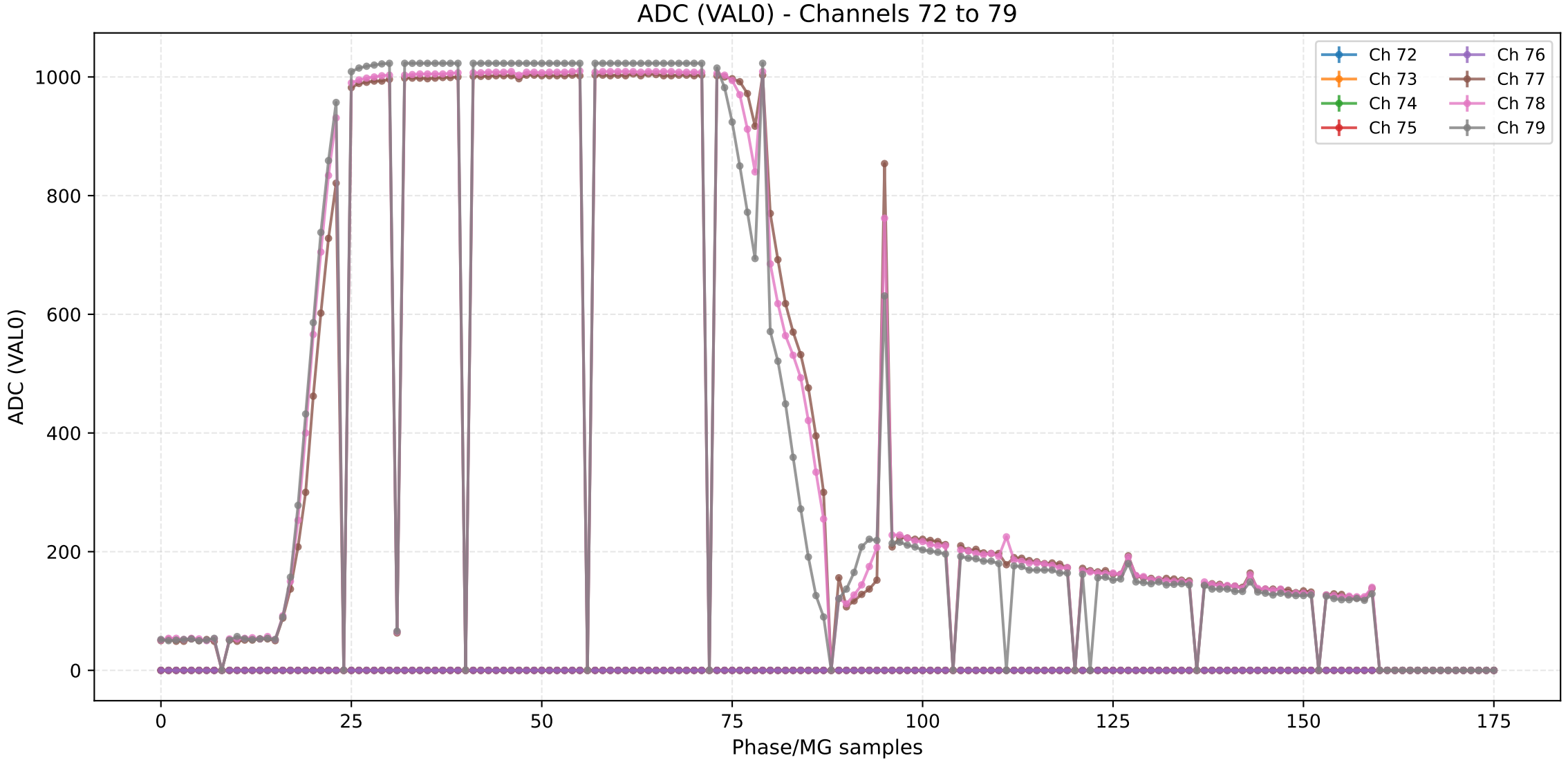

ADC (VAL0) - Channels 32 to 39
ADC (VAL0)
Phase/MG samples
Ch 32
Ch 33
Ch 34
Ch 35
Ch 36
Ch 37
Ch 38
Ch 39
0
200
400
600
800
1000
0
25
50
75
100
125
150
175

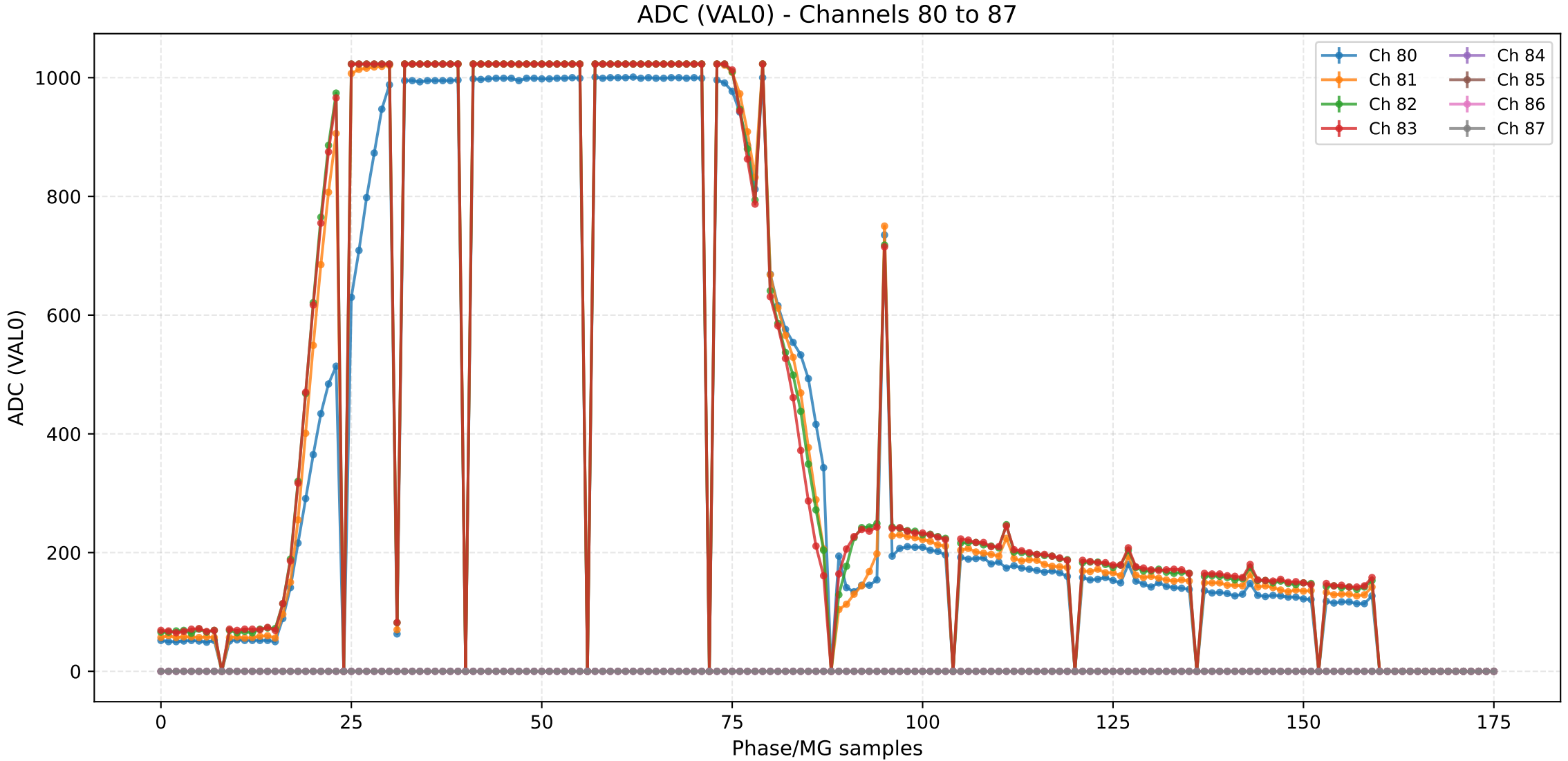

ADC (VAL0) - Channels 40 to 47
ADC (VAL0)
Phase/MG samples
Ch 40
Ch 41
Ch 42
Ch 43
Ch 44
Ch 45
Ch 46
Ch 47
0
200
400
600
800
1000
0
25
50
75
100
125
150
175

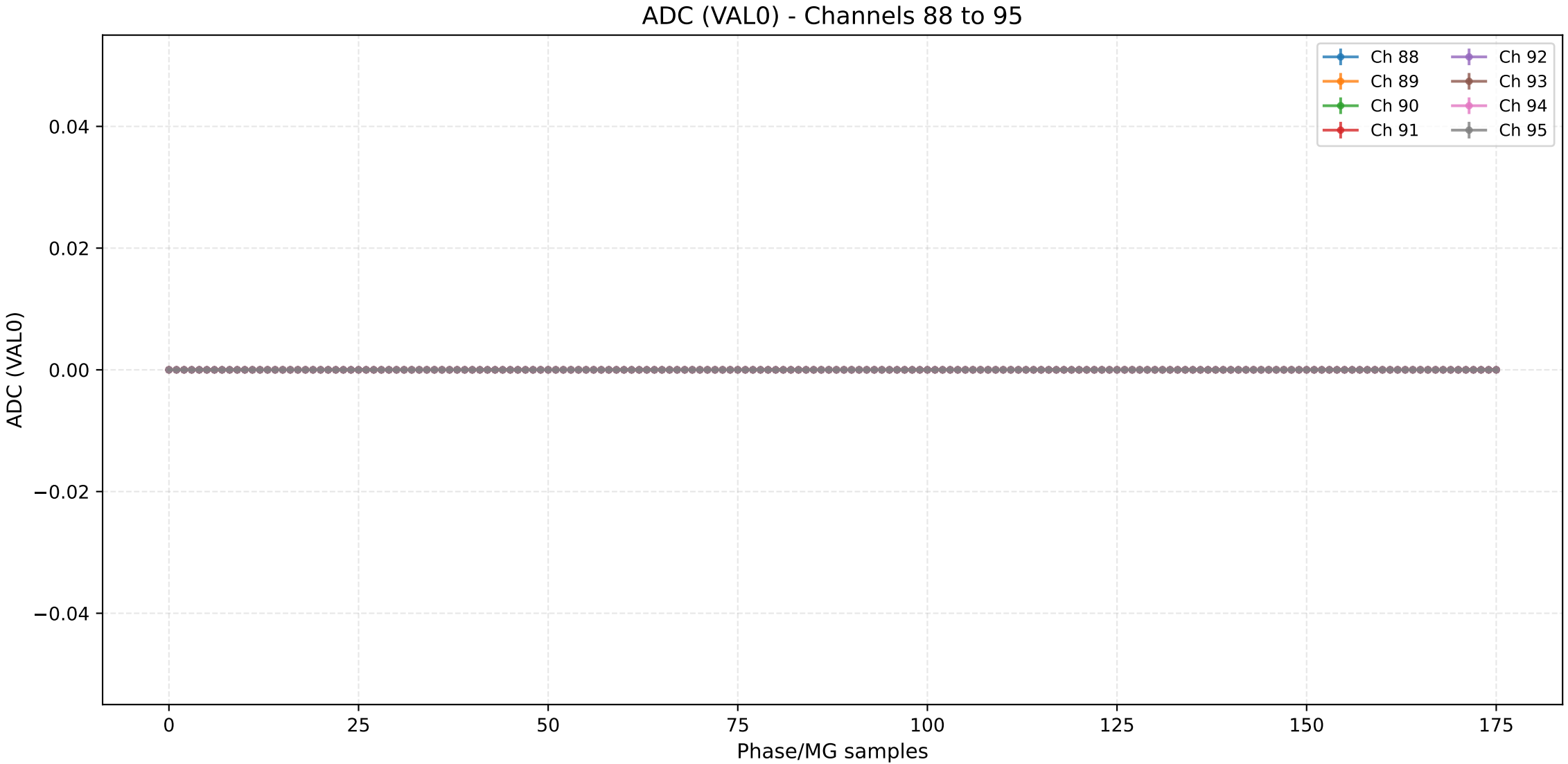

ADC (VAL0) - Channels 48 to 55
Ch 48
Ch 49
Ch 50
Ch 51
Ch 52
Ch 53
Ch 54
Ch 55
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

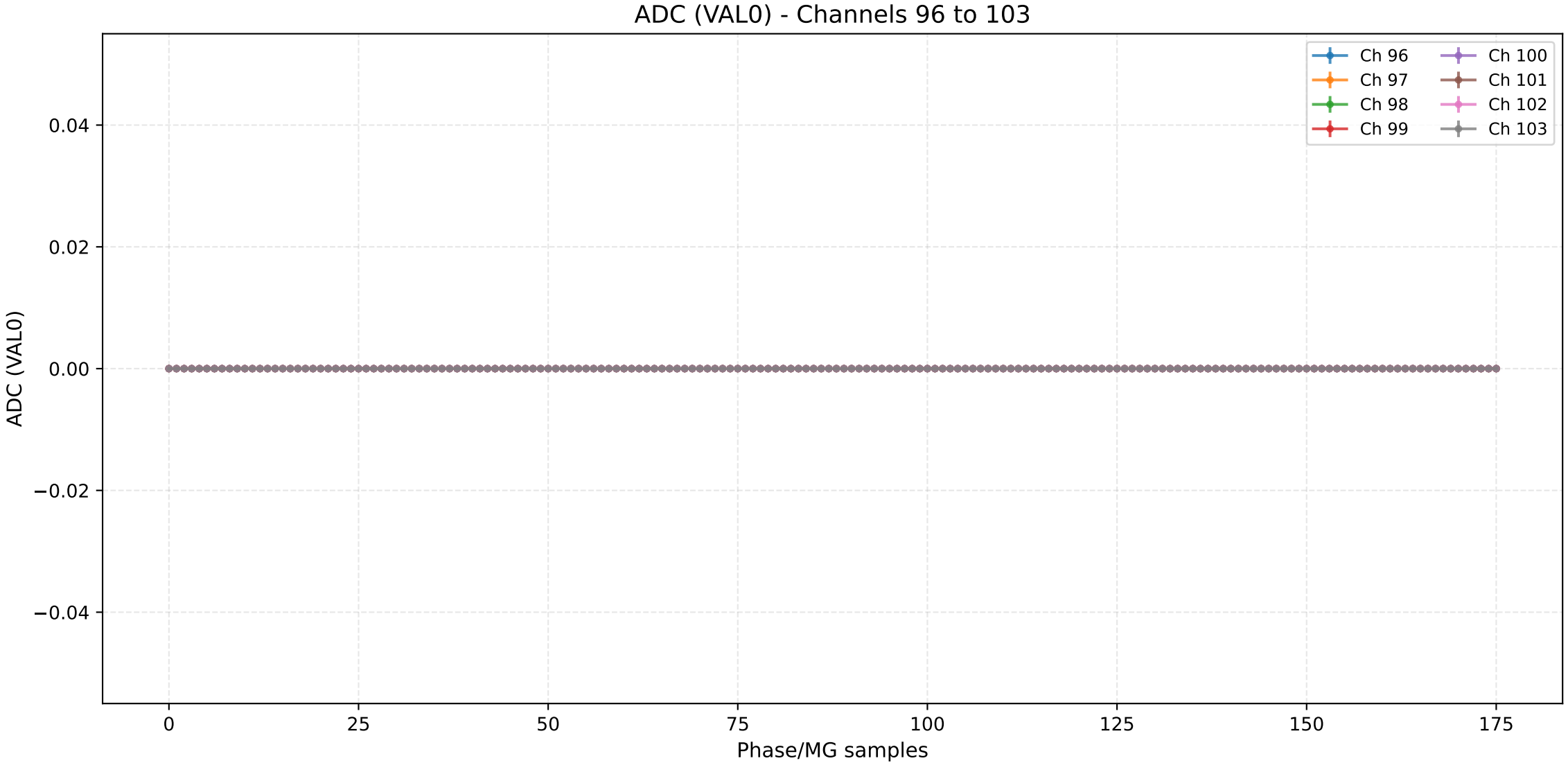

ADC (VAL0) - Channels 56 to 63
Ch 56
Ch 57
Ch 58
Ch 59
Ch 60
Ch 61
Ch 62
Ch 63
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

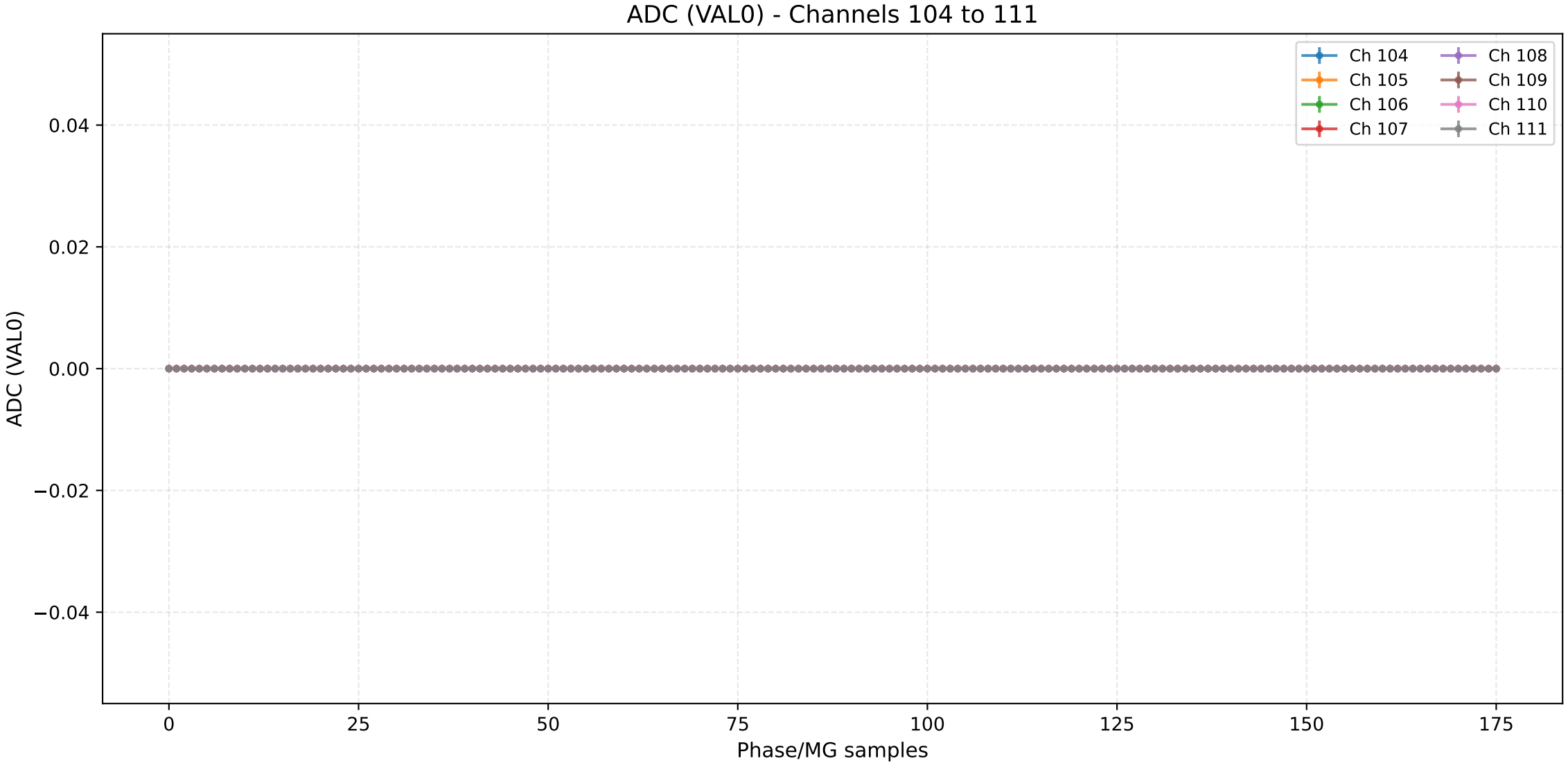

ADC (VAL0) - Channels 64 to 71
Ch 64
Ch 65
Ch 66
Ch 67
Ch 68
Ch 69
Ch 70
Ch 71
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

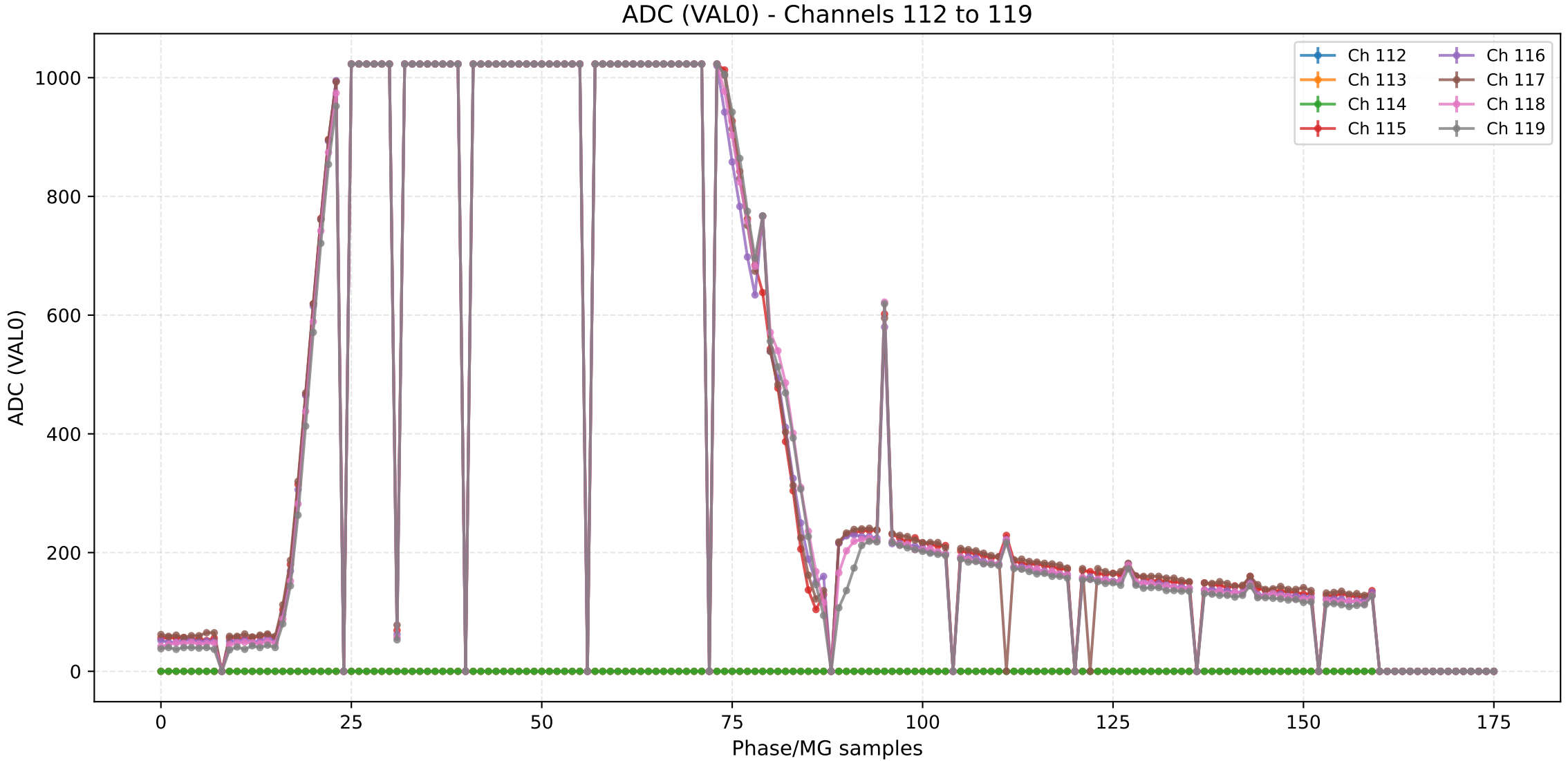

ADC (VAL0) - Channels 72 to 79
Ch 72
Ch 73
Ch 74
Ch 75
Ch 76
Ch 77
Ch 78
Ch 79
ADC (VAL0)
0
200
400
600
800
1000
0
25
50
75
100
125
150
175
Phase/MG samples

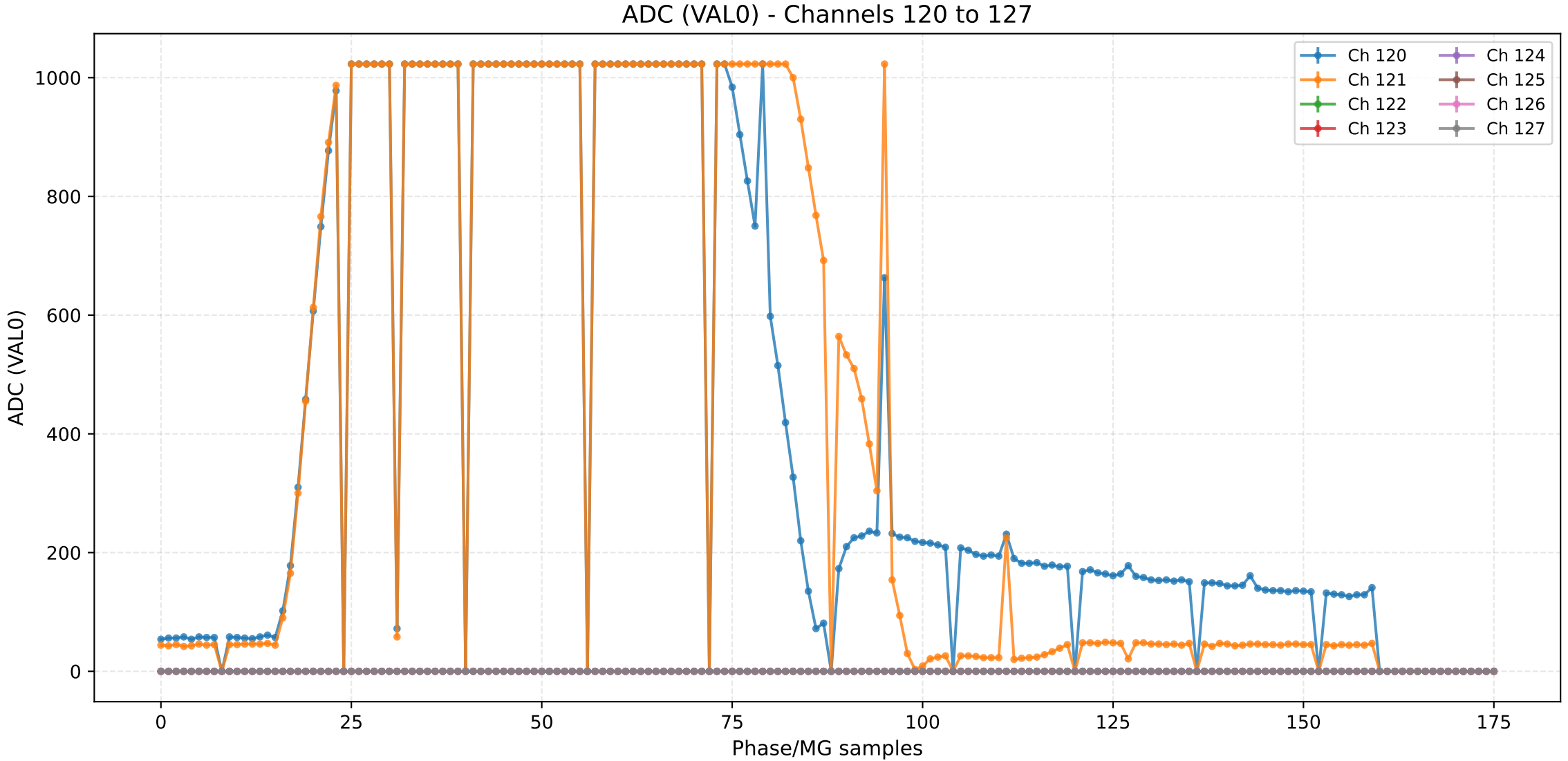

ADC (VAL0) - Channels 80 to 87
ADC (VAL0)
Phase/MG samples
Ch 80
Ch 81
Ch 82
Ch 83
Ch 84
Ch 85
Ch 86
Ch 87
0
200
400
600
800
1000
0
25
50
75
100
125
150
175

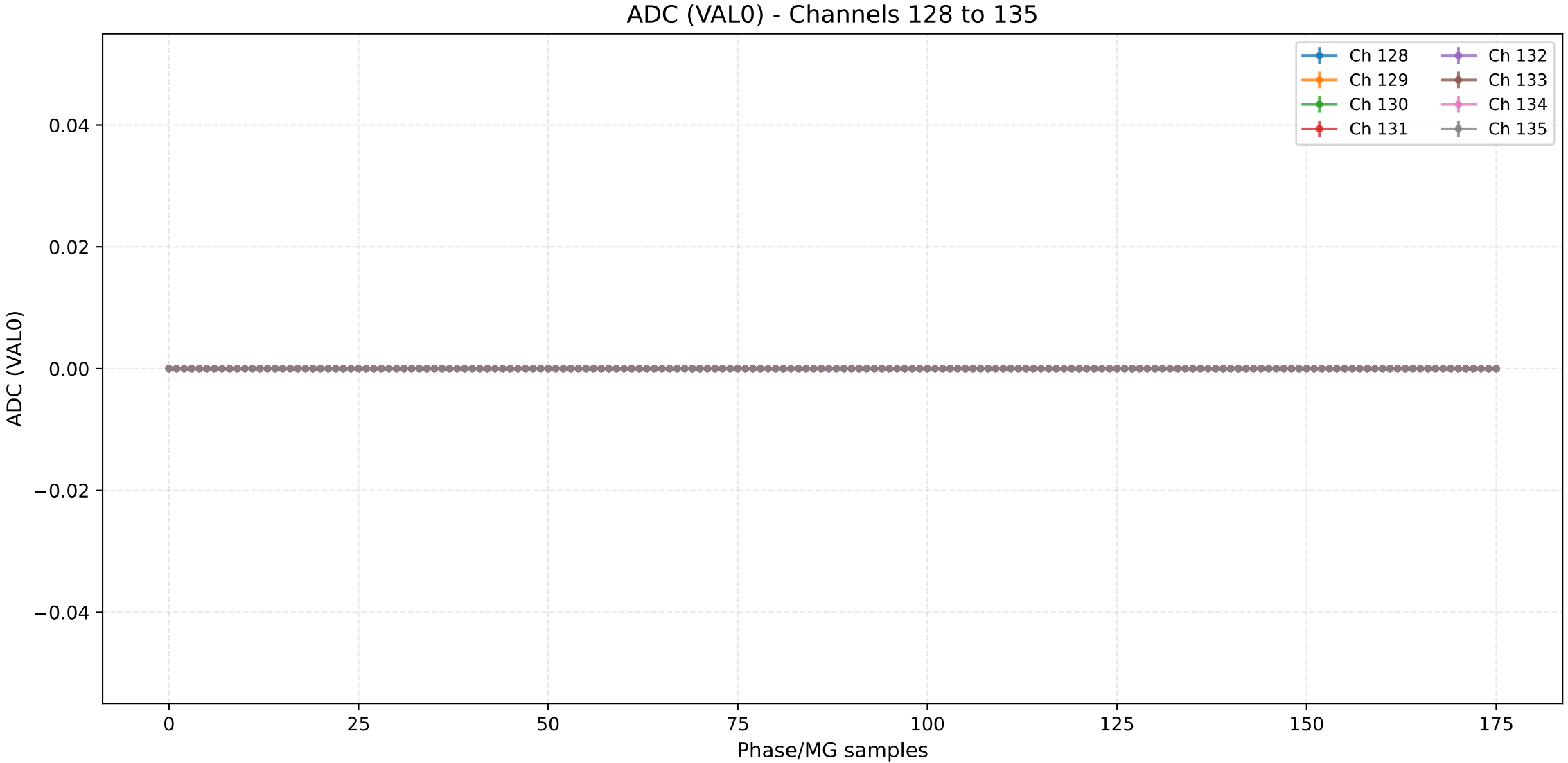

ADC (VAL0) - Channels 88 to 95
Ch 88
Ch 89
Ch 90
Ch 91
Ch 92
Ch 93
Ch 94
Ch 95
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

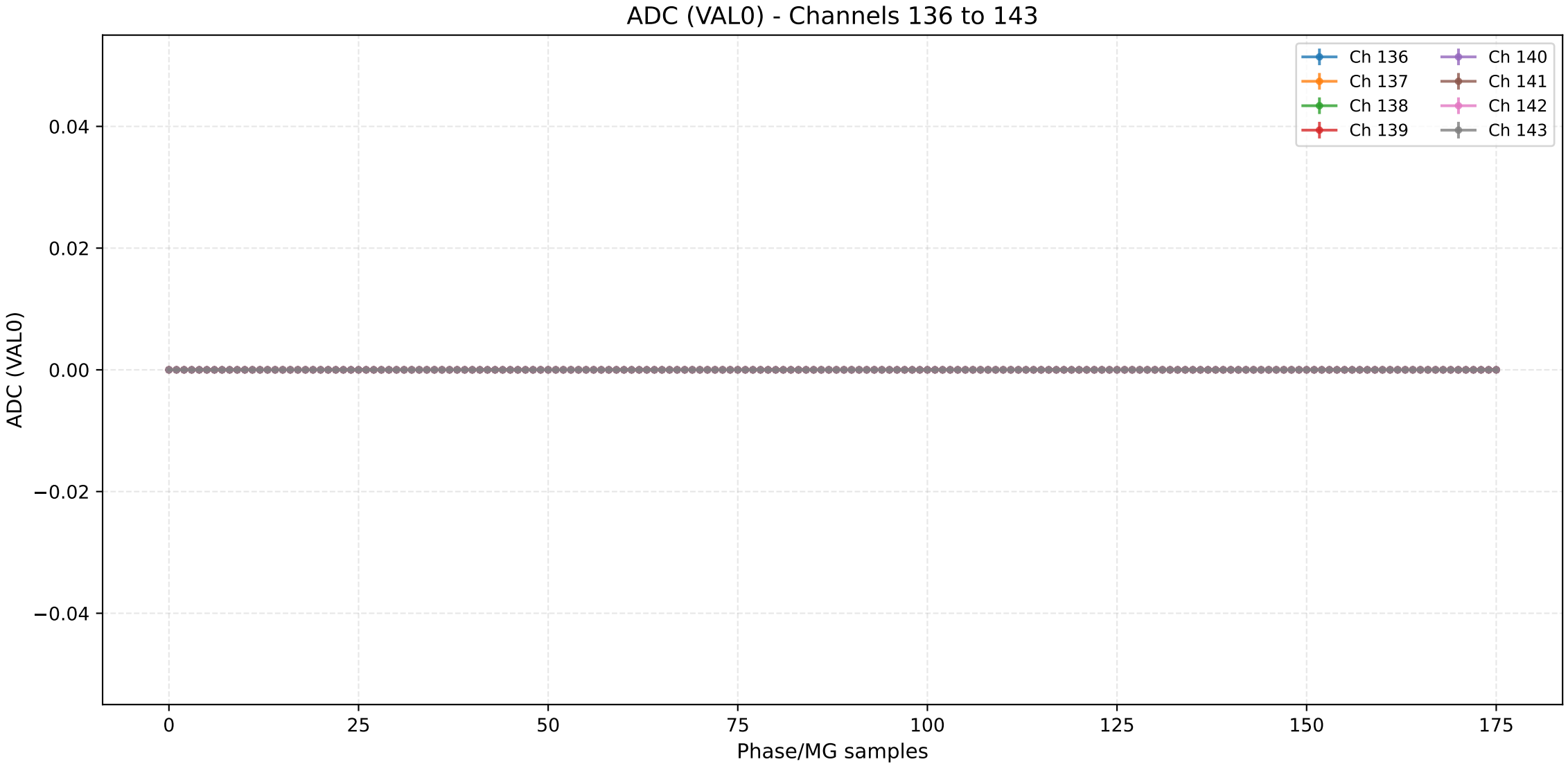

ADC (VAL0) - Channels 96 to 103
Ch 96
Ch 97
Ch 98
Ch 99
Ch 100
Ch 101
Ch 102
Ch 103
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

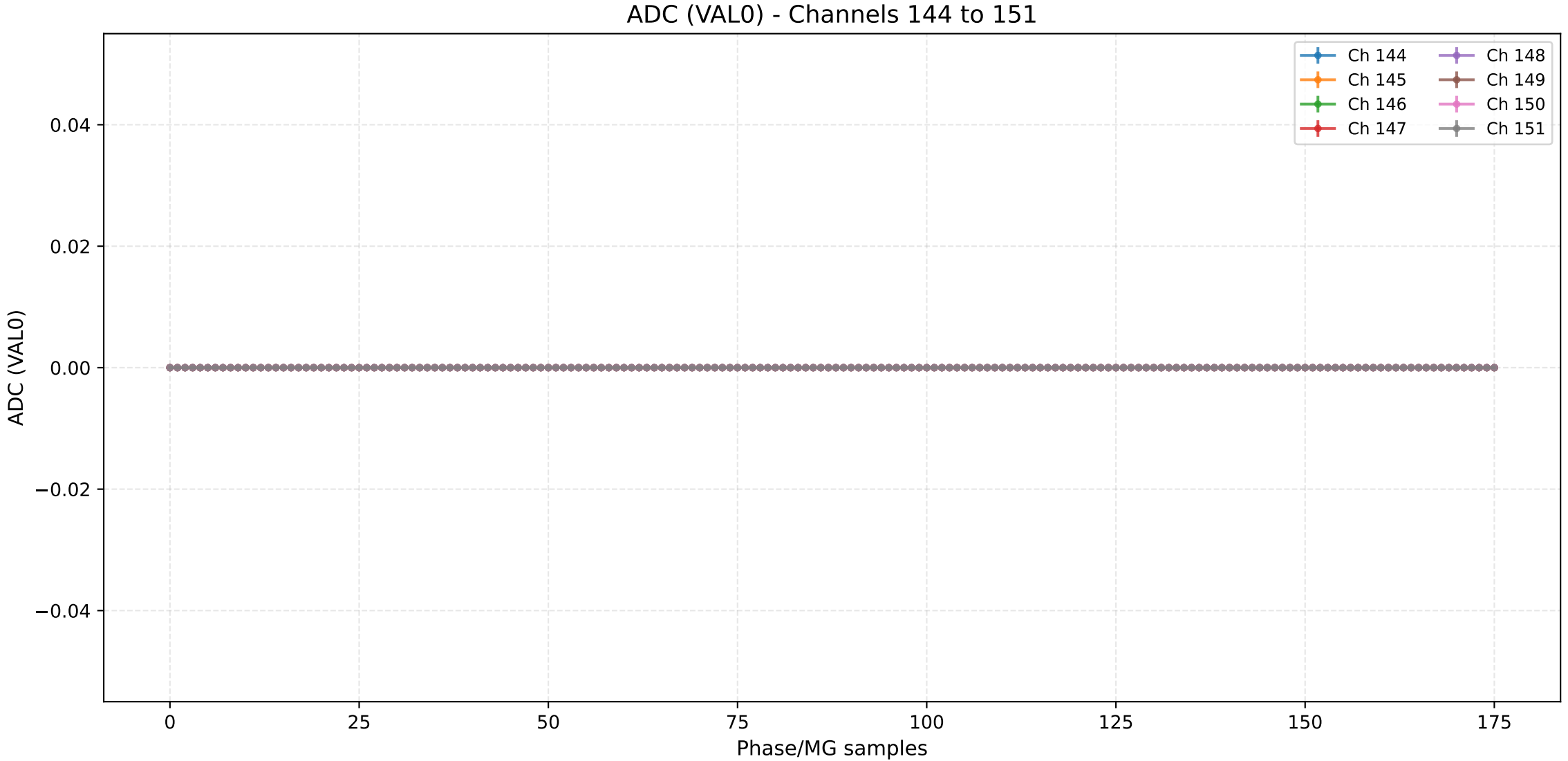

ADC (VAL0) - Channels 104 to 111
Ch 104
Ch 105
Ch 106
Ch 107
Ch 108
Ch 109
Ch 110
Ch 111
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

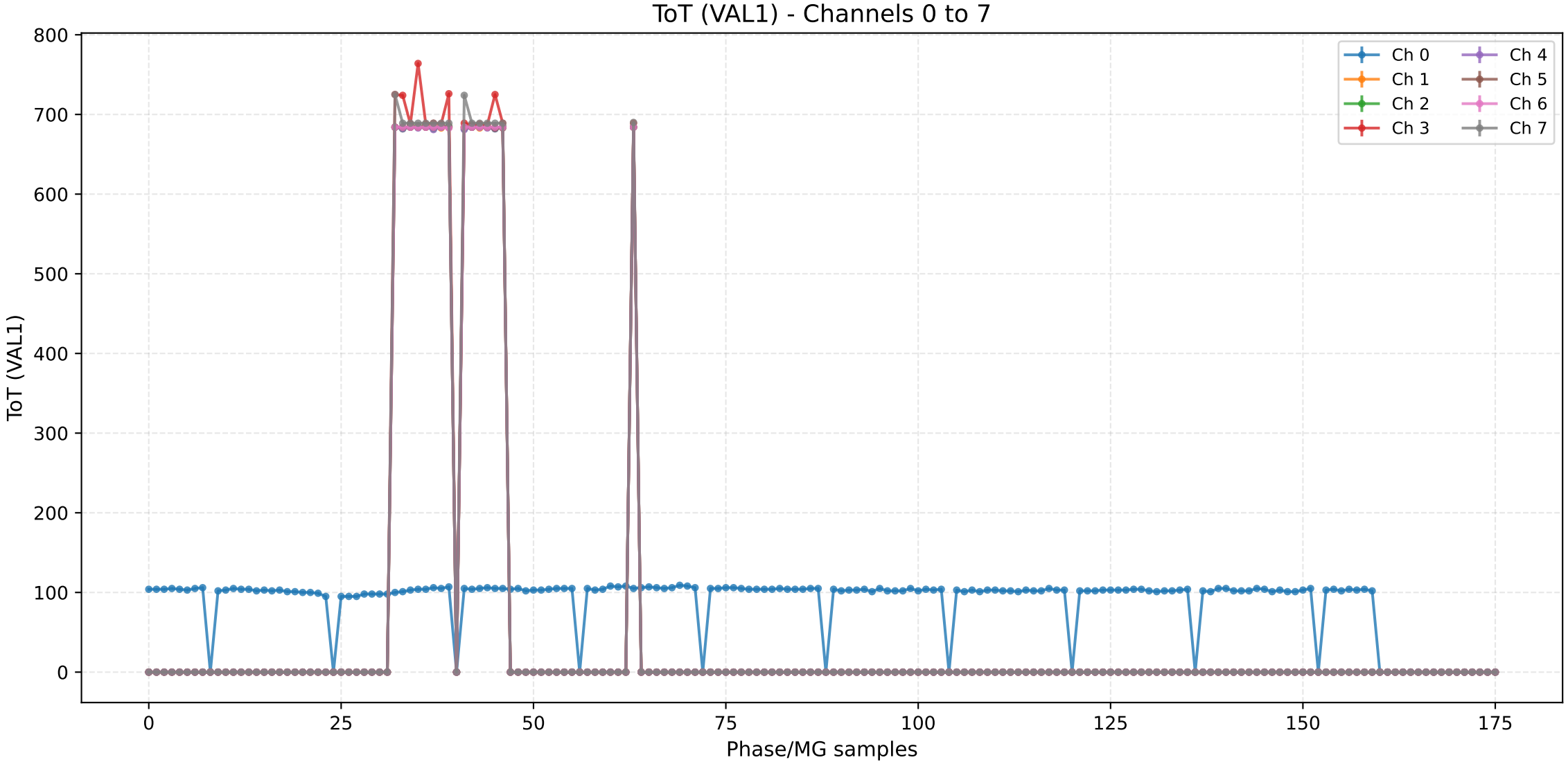

ADC (VAL0) - Channels 112 to 119
ADC (VAL0)
Phase/MG samples
Ch 112
Ch 113
Ch 114
Ch 115
Ch 116
Ch 117
Ch 118
Ch 119
0
200
400
600
800
1000
0
25
50
75
100
125
150
175

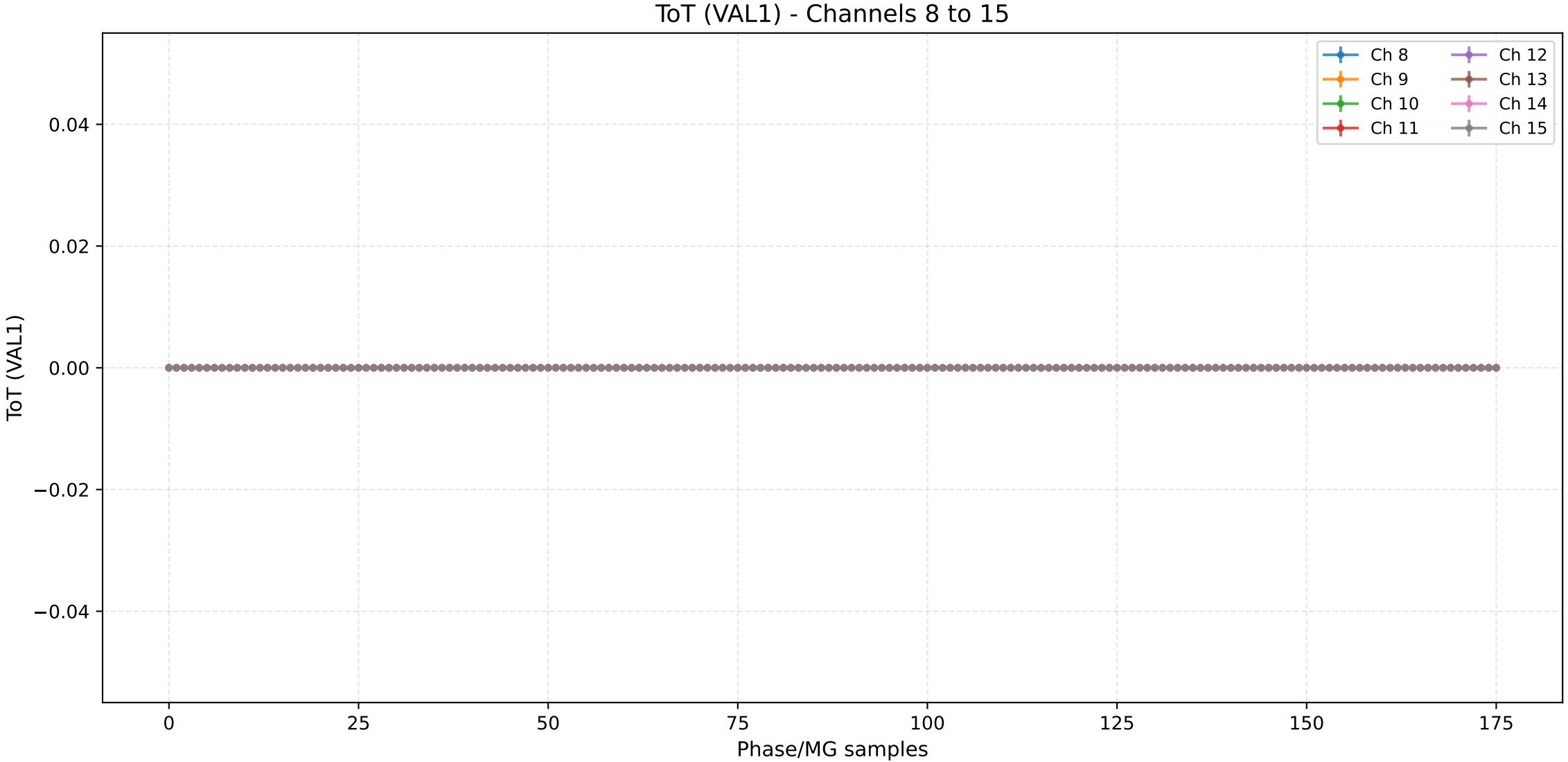

ADC (VAL0) - Channels 120 to 127
Ch 120
Ch 121
Ch 122
Ch 123
Ch 124
Ch 125
Ch 126
Ch 127
ADC (VAL0)
Phase/MG samples
0
200
400
600
800
1000
0
25
50
75
100
125
150
175

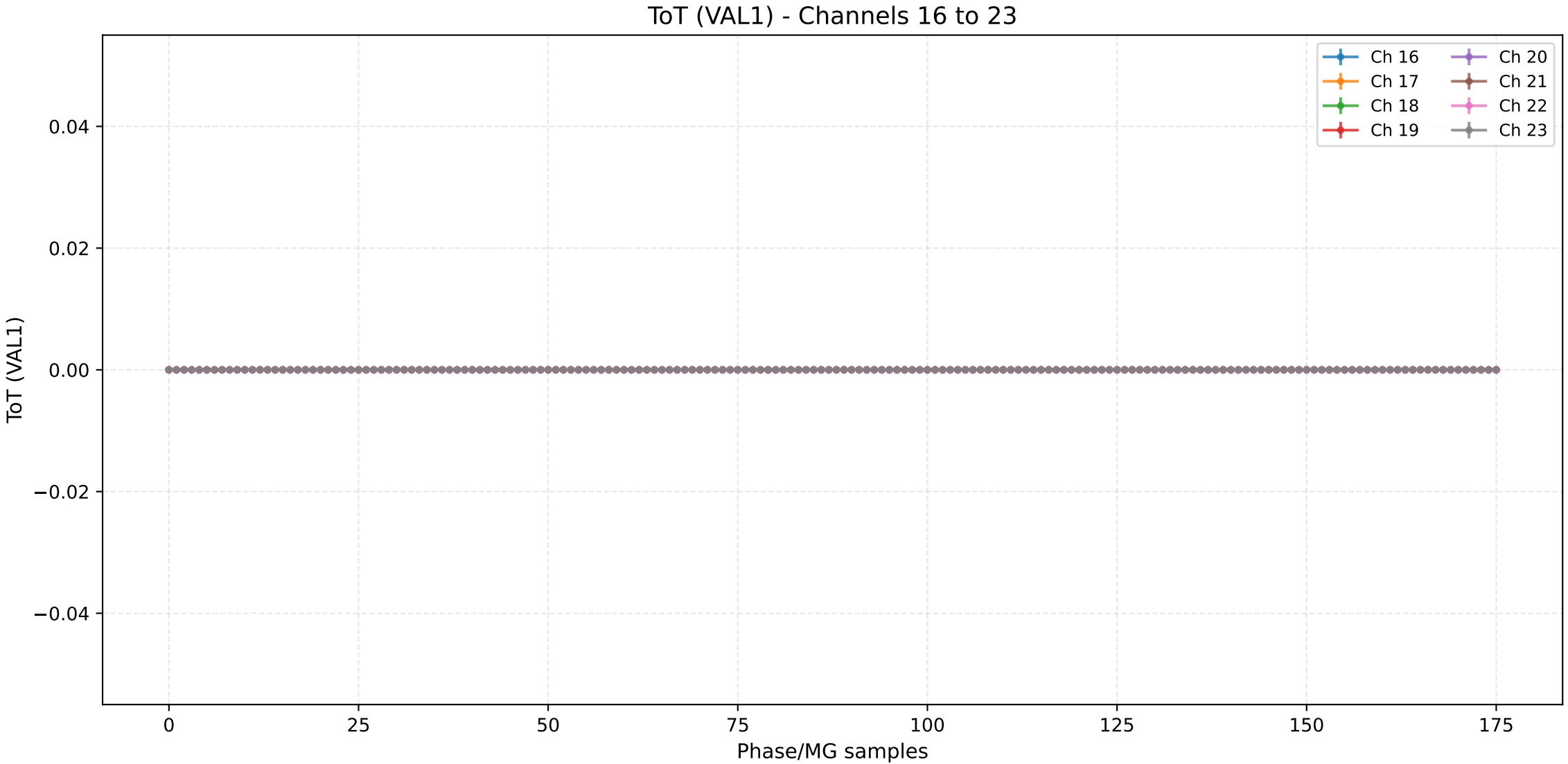

ADC (VAL0) - Channels 128 to 135
Ch 128
Ch 129
Ch 130
Ch 131
Ch 132
Ch 133
Ch 134
Ch 135
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

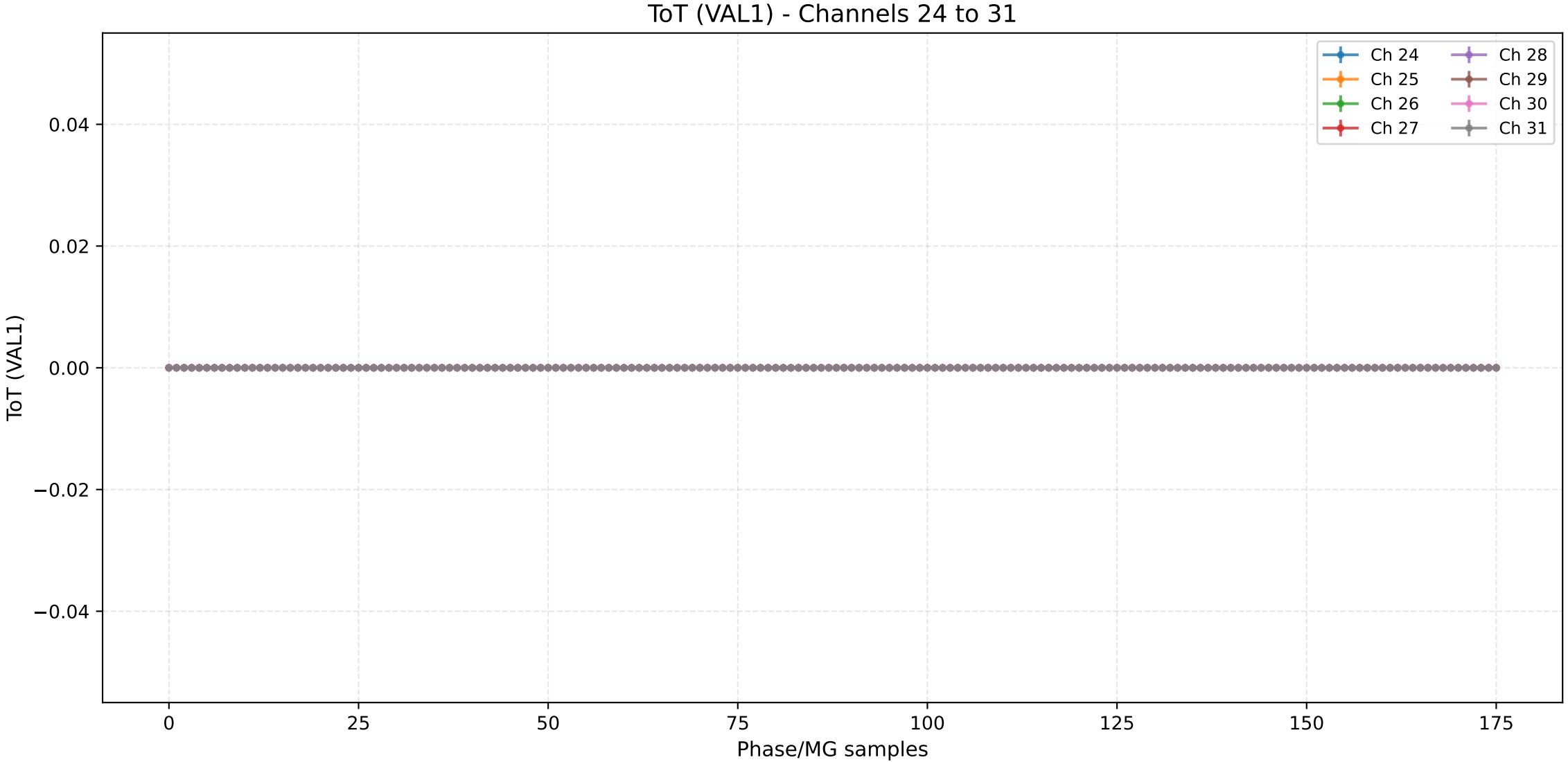

ADC (VAL0) - Channels 136 to 143
Ch 136
Ch 137
Ch 138
Ch 139
Ch 140
Ch 141
Ch 142
Ch 143
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

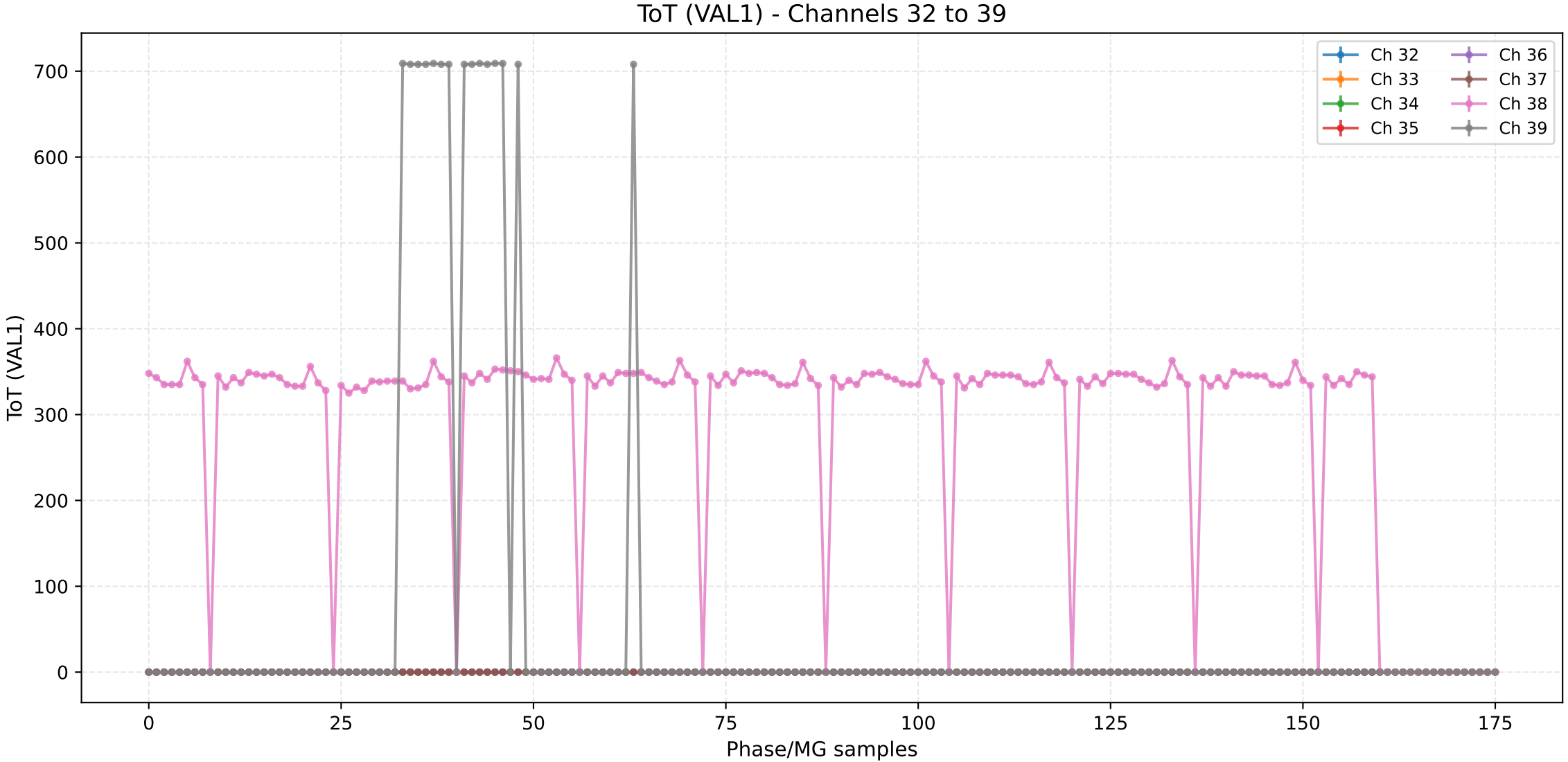

ADC (VAL0) - Channels 144 to 151
Ch 144
Ch 145
Ch 146
Ch 147
Ch 148
Ch 149
Ch 150
Ch 151
0.04
0.02
0.00
−0.02
−0.04
ADC (VAL0)
0
25
50
75
100
125
150
175
Phase/MG samples

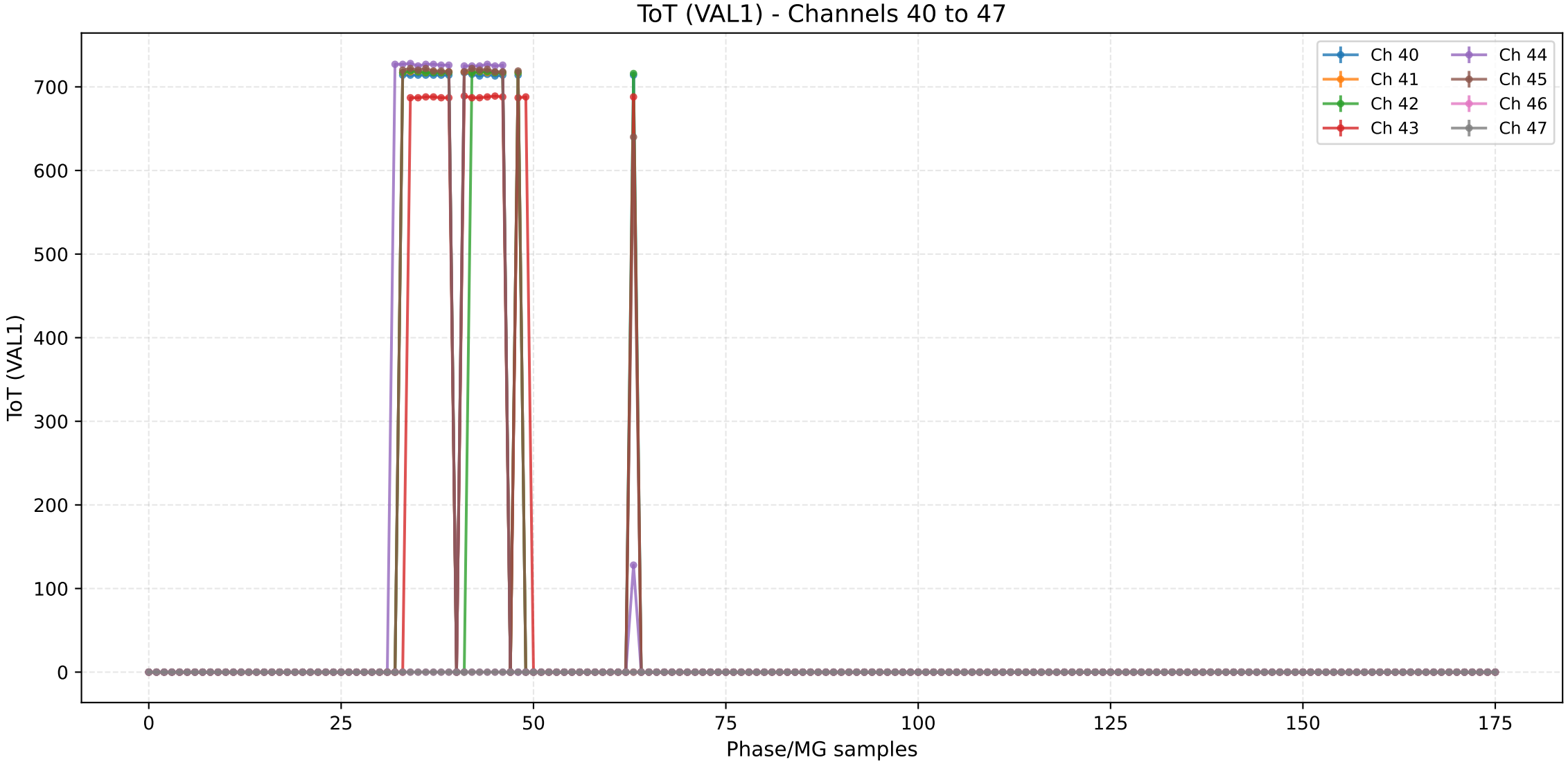

ToT (VAL1) - Channels 0 to 7
ToT (VAL1)
Phase/MG samples
Ch 0
Ch 1
Ch 2
Ch 3
Ch 4
Ch 5
Ch 6
Ch 7
800
700
600
500
400
300
200
100
0
0
25
50
75
100
125
150
175

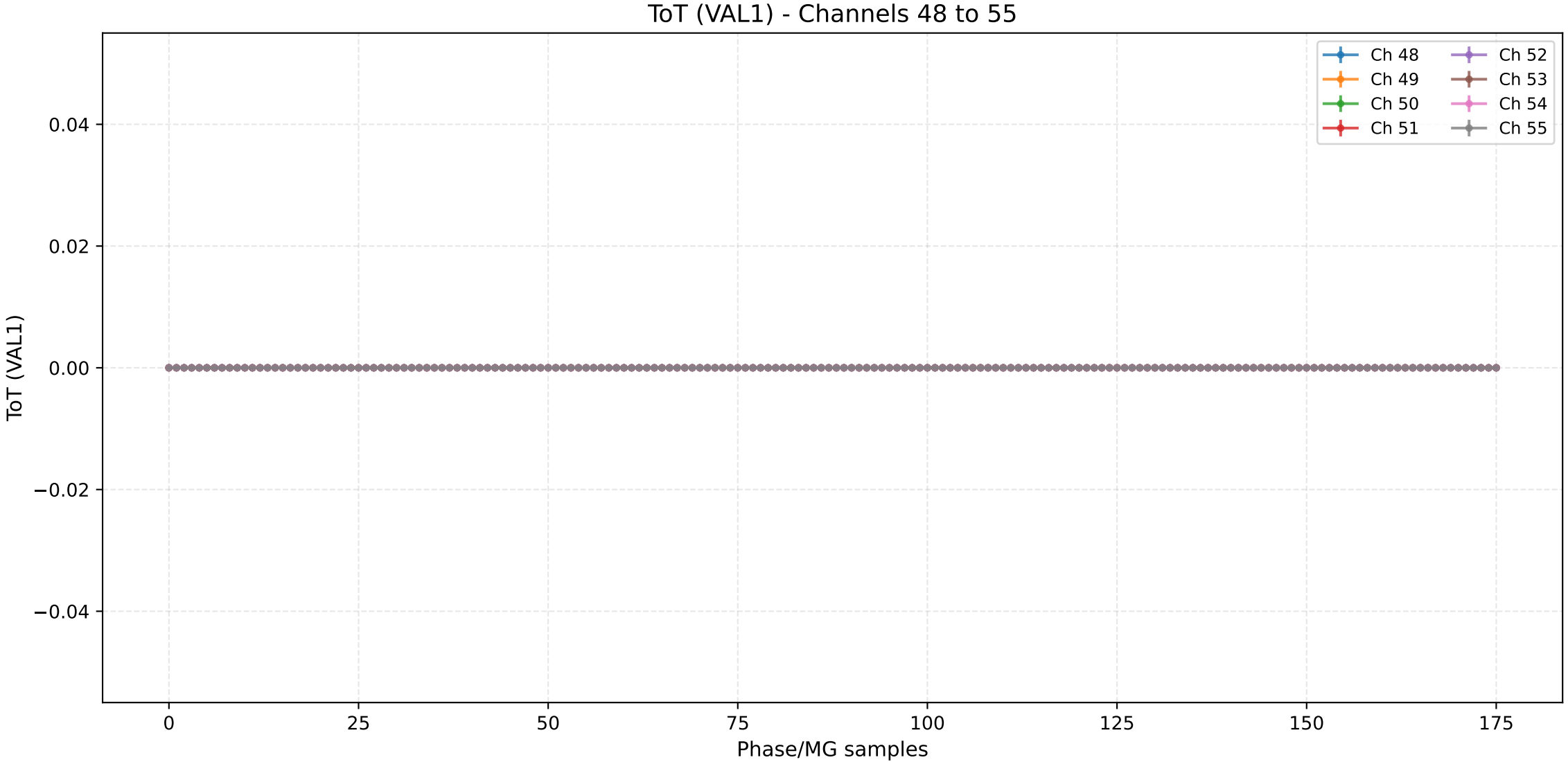

ToT (VAL1) - Channels 8 to 15
Ch 8
Ch 9
Ch 10
Ch 11
Ch 12
Ch 13
Ch 14
Ch 15
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

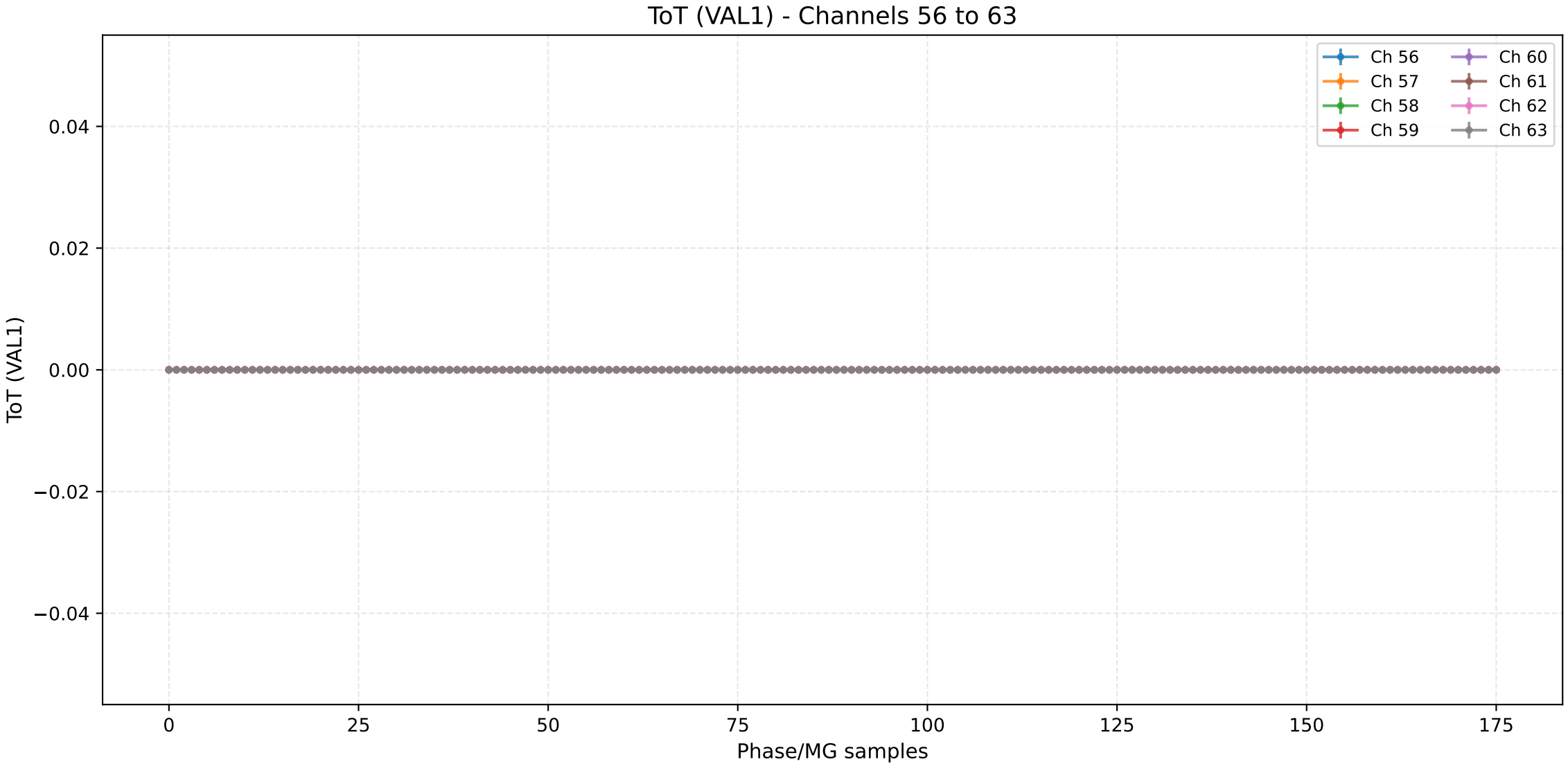

ToT (VAL1) - Channels 16 to 23
Ch 16
Ch 17
Ch 18
Ch 19
Ch 20
Ch 21
Ch 22
Ch 23
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

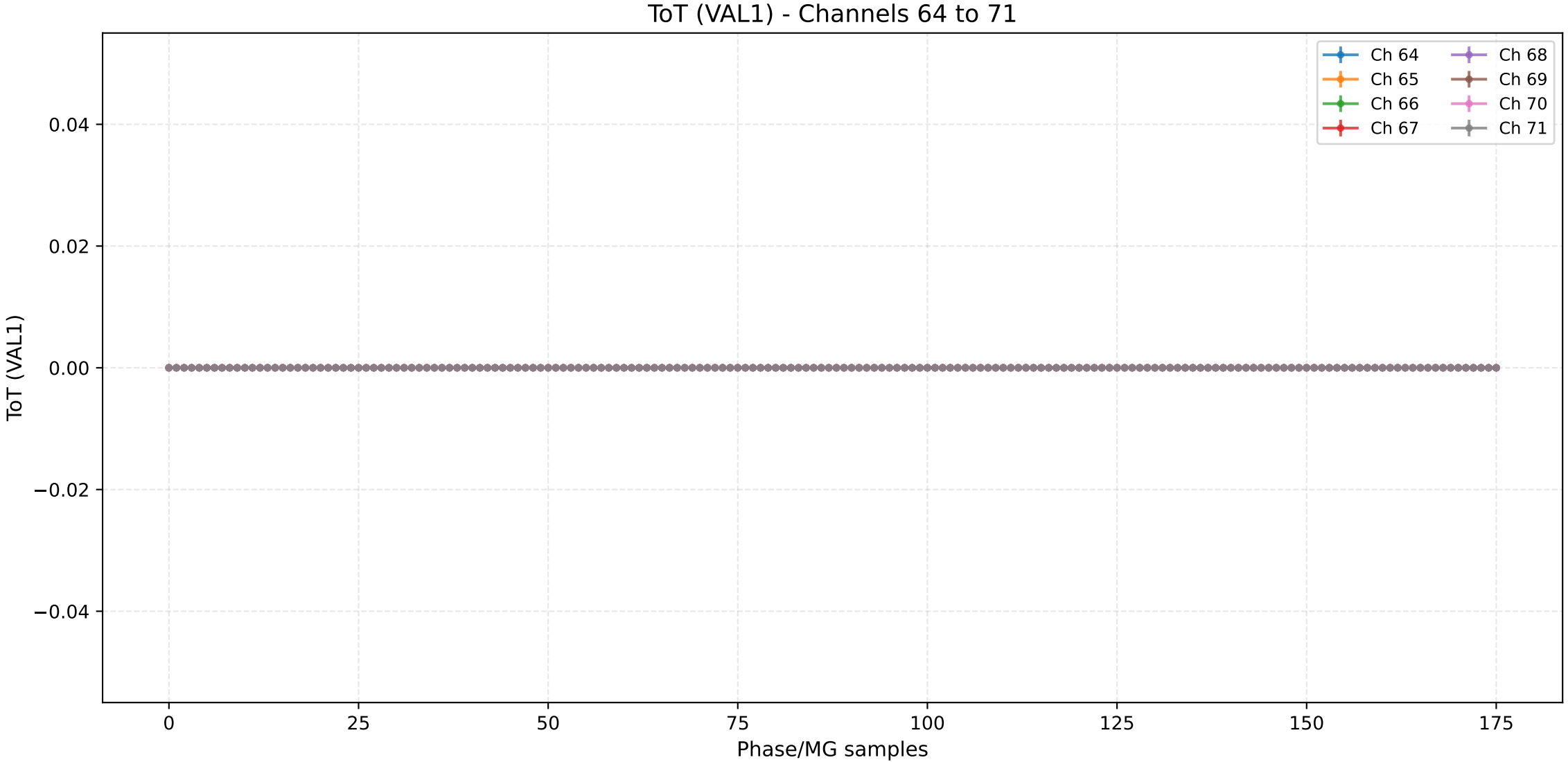

ToT (VAL1) - Channels 24 to 31
Ch 24
Ch 25
Ch 26
Ch 27
Ch 28
Ch 29
Ch 30
Ch 31
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

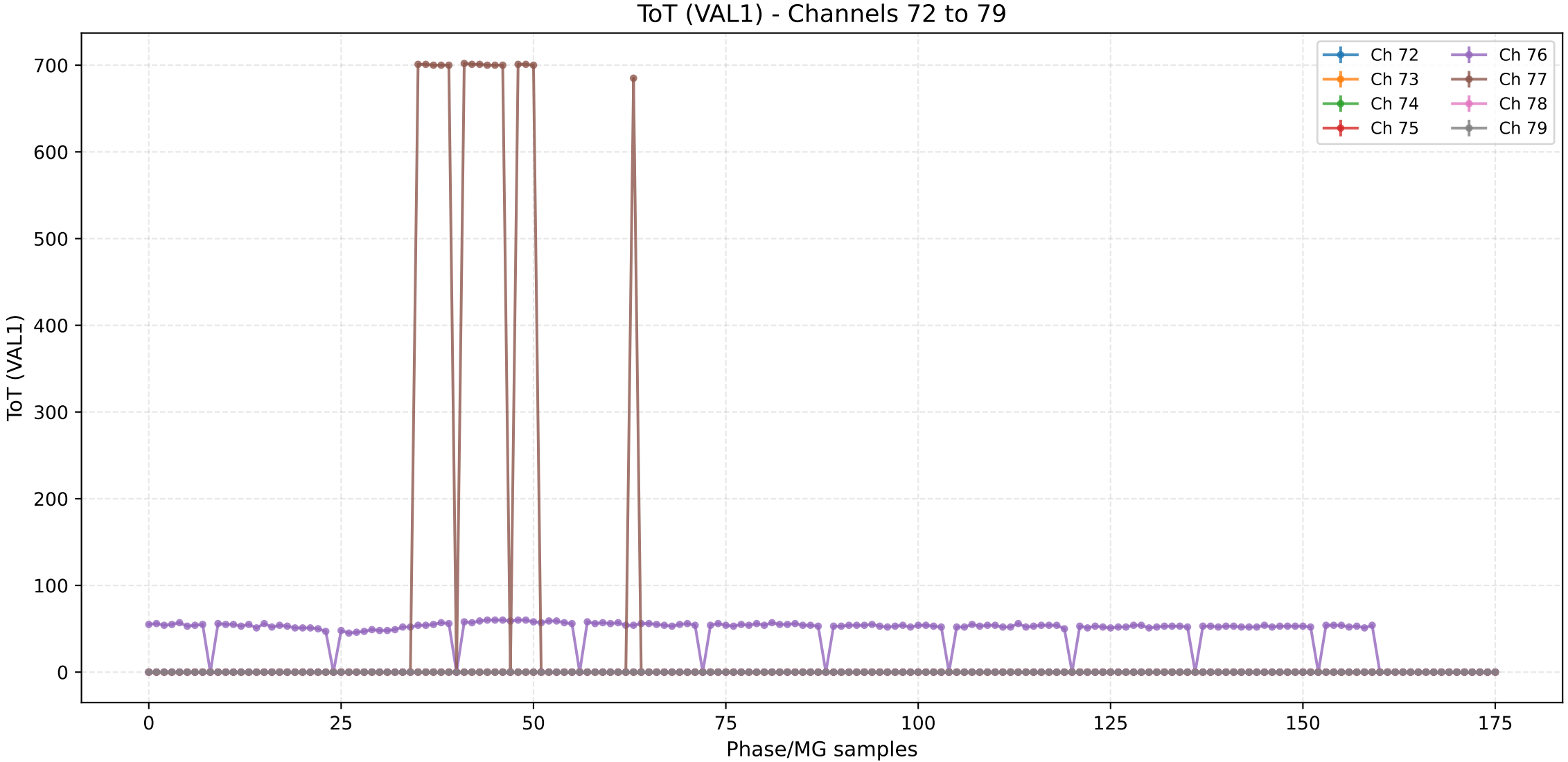

ToT (VAL1) - Channels 32 to 39
ToT (VAL1)
Phase/MG samples
Ch 32
Ch 33
Ch 34
Ch 35
Ch 36
Ch 37
Ch 38
Ch 39
0
100
200
300
400
500
600
700
0
25
50
75
100
125
150
175

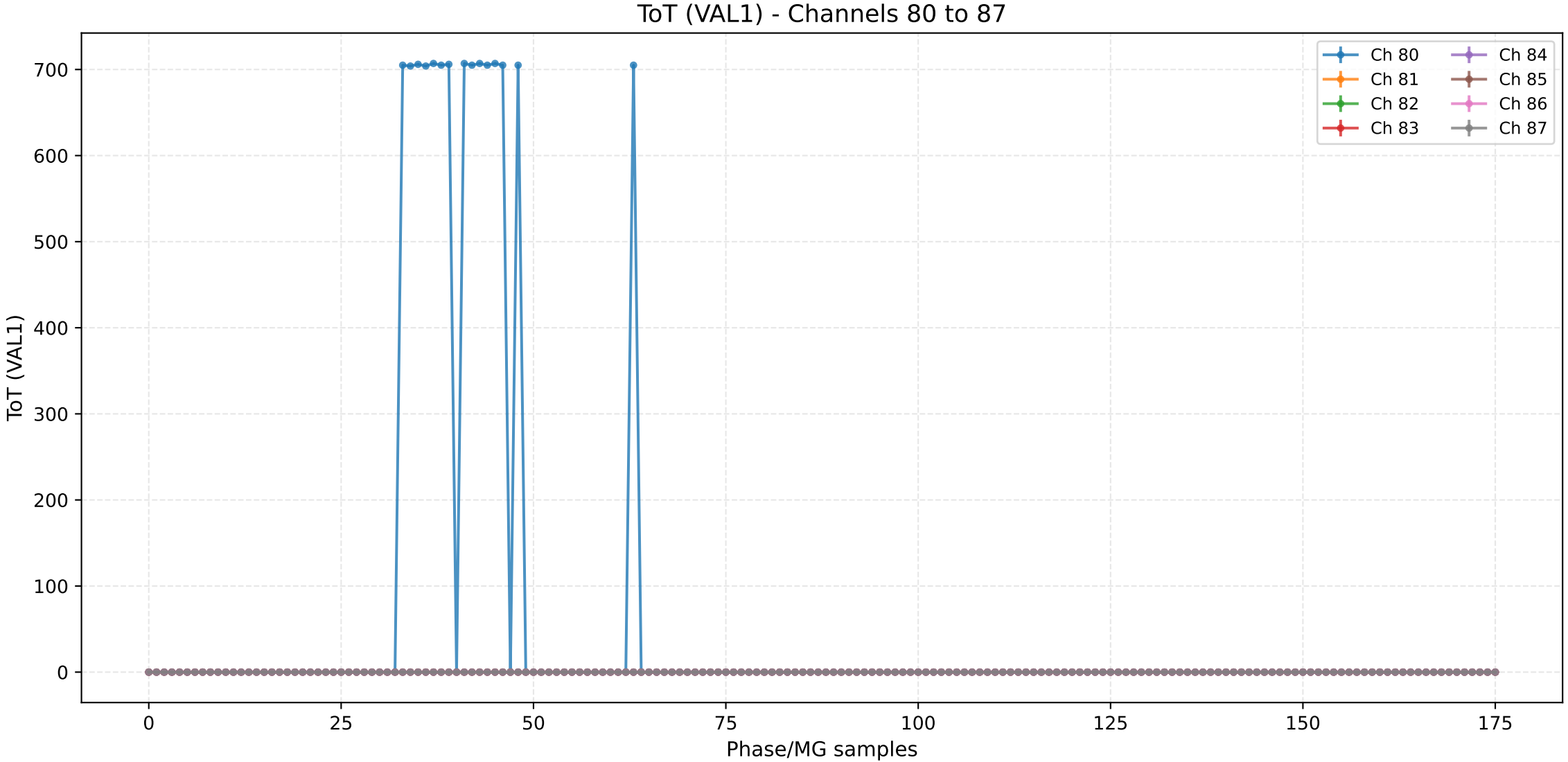

ToT (VAL1) - Channels 40 to 47
ToT (VAL1)
Phase/MG samples
Ch 40
Ch 41
Ch 42
Ch 43
Ch 44
Ch 45
Ch 46
Ch 47
0
100
200
300
400
500
600
700
0
25
50
75
100
125
150
175

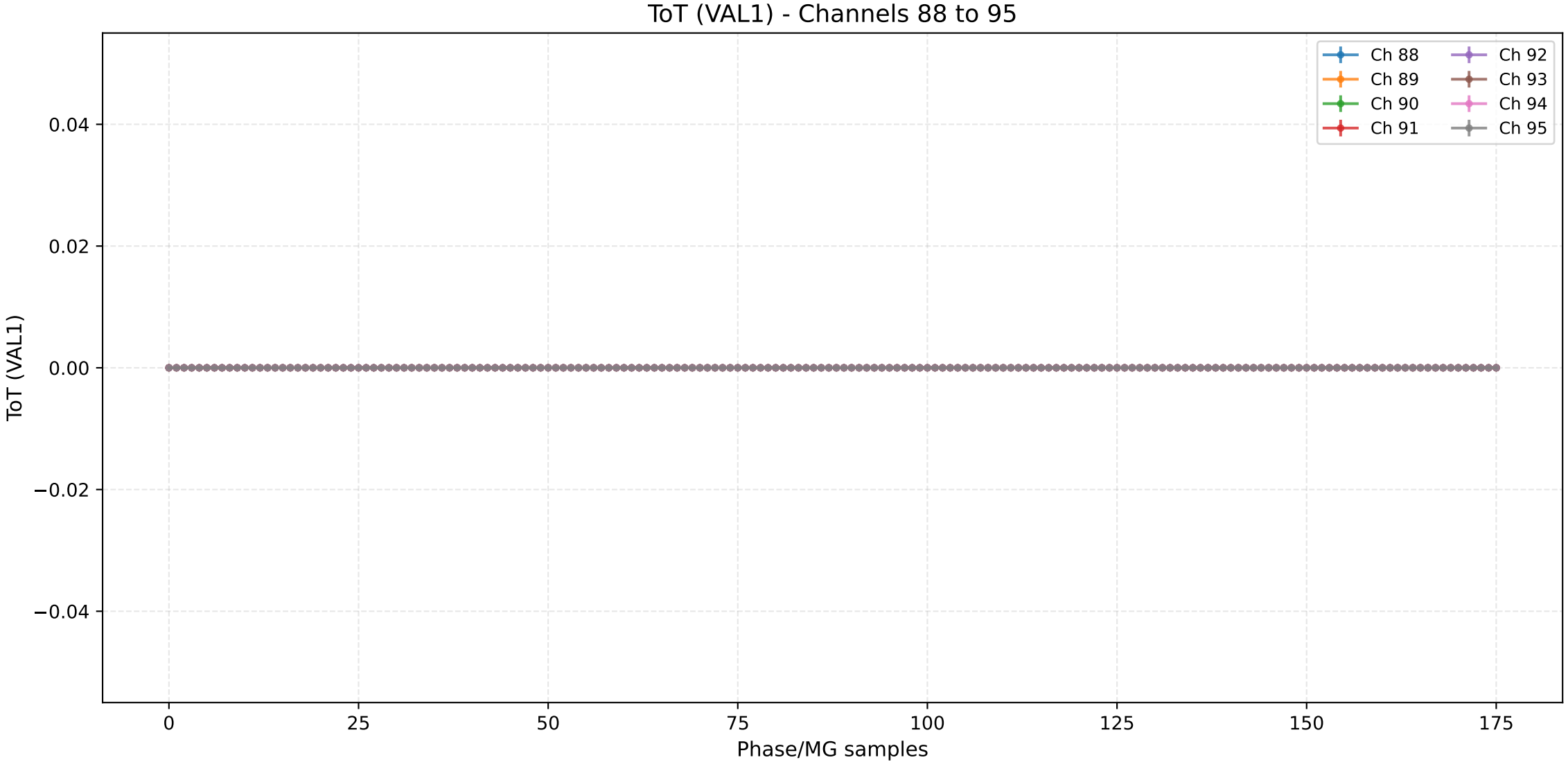

ToT (VAL1) - Channels 48 to 55
Ch 48
Ch 49
Ch 50
Ch 51
Ch 52
Ch 53
Ch 54
Ch 55
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

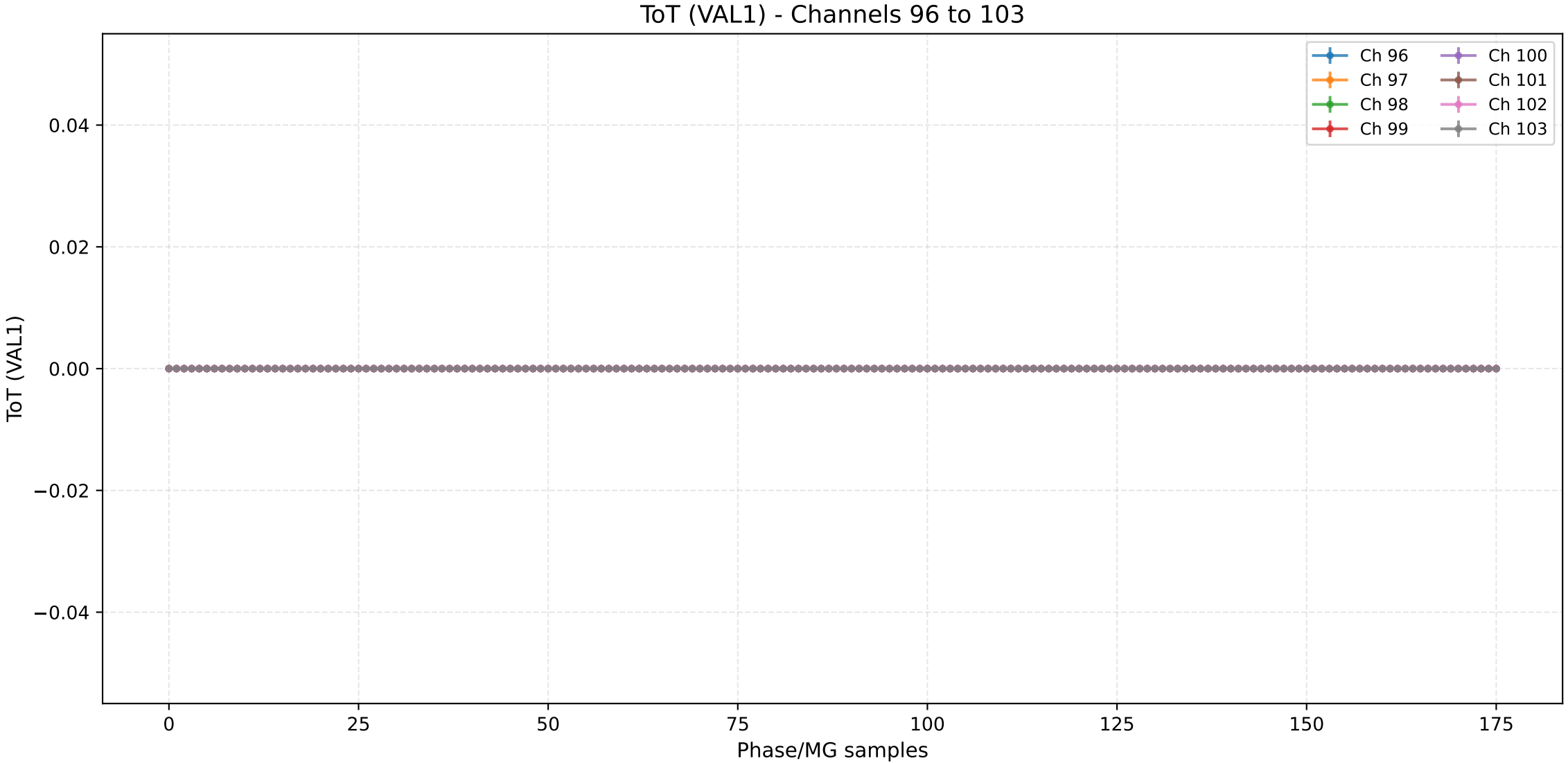

ToT (VAL1) - Channels 56 to 63
Ch 56
Ch 57
Ch 58
Ch 59
Ch 60
Ch 61
Ch 62
Ch 63
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

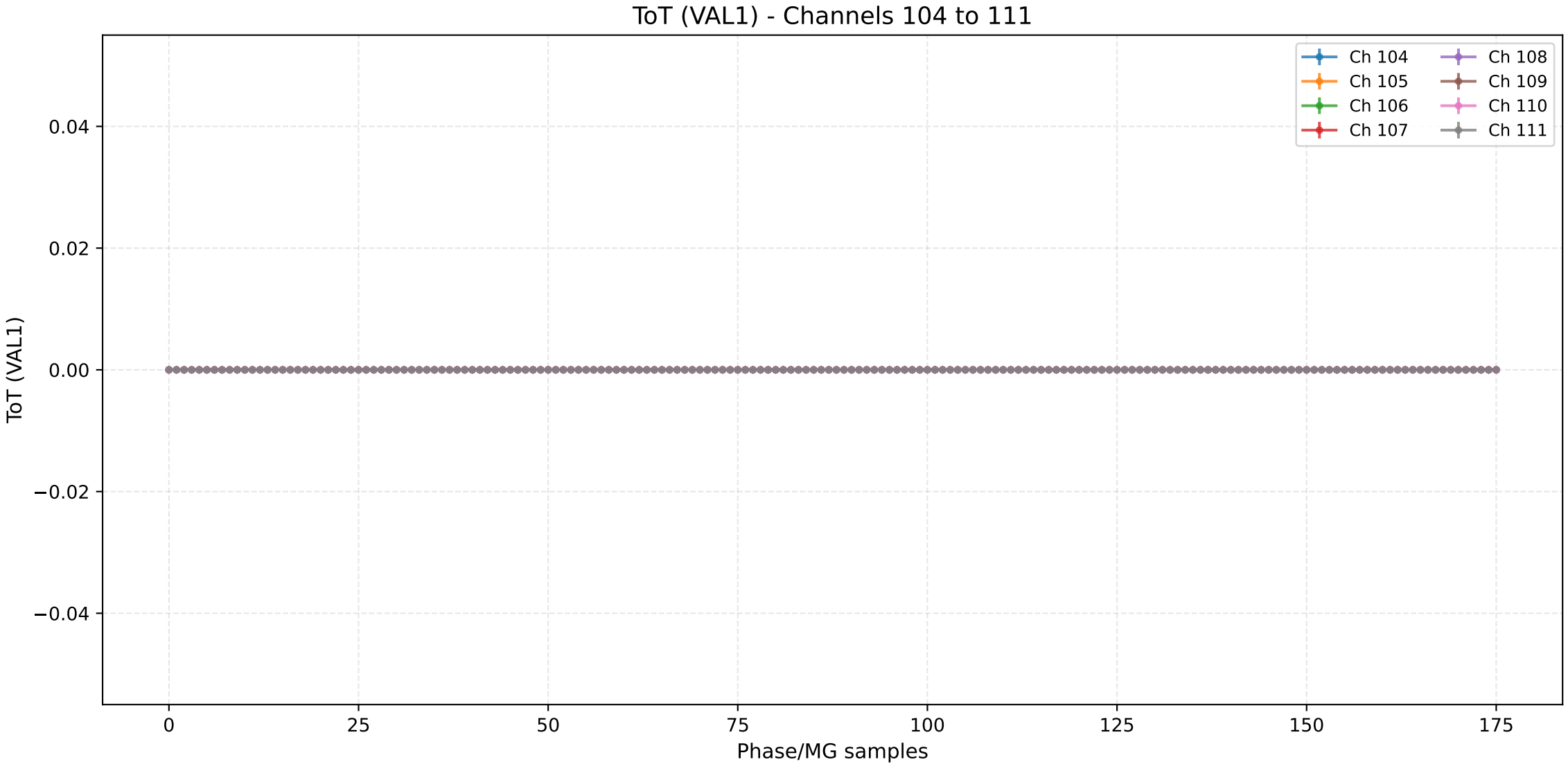

ToT (VAL1) - Channels 64 to 71
Ch 64
Ch 65
Ch 66
Ch 67
Ch 68
Ch 69
Ch 70
Ch 71
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

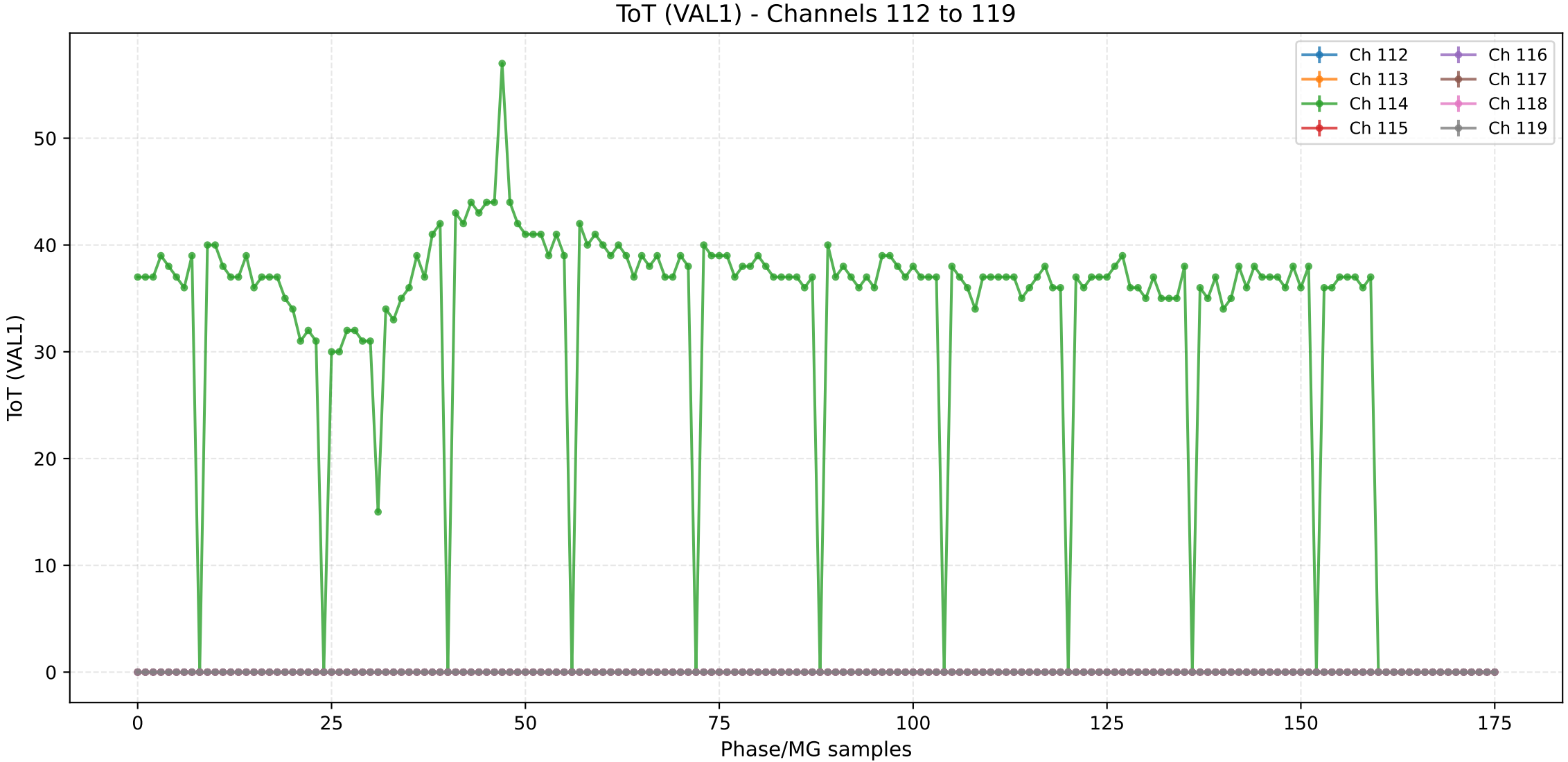

ToT (VAL1) - Channels 72 to 79
Ch 72
Ch 73
Ch 74
Ch 75
Ch 76
Ch 77
Ch 78
Ch 79
ToT (VAL1)
0
100
200
300
400
500
600
700
0
25
50
75
100
125
150
175
Phase/MG samples

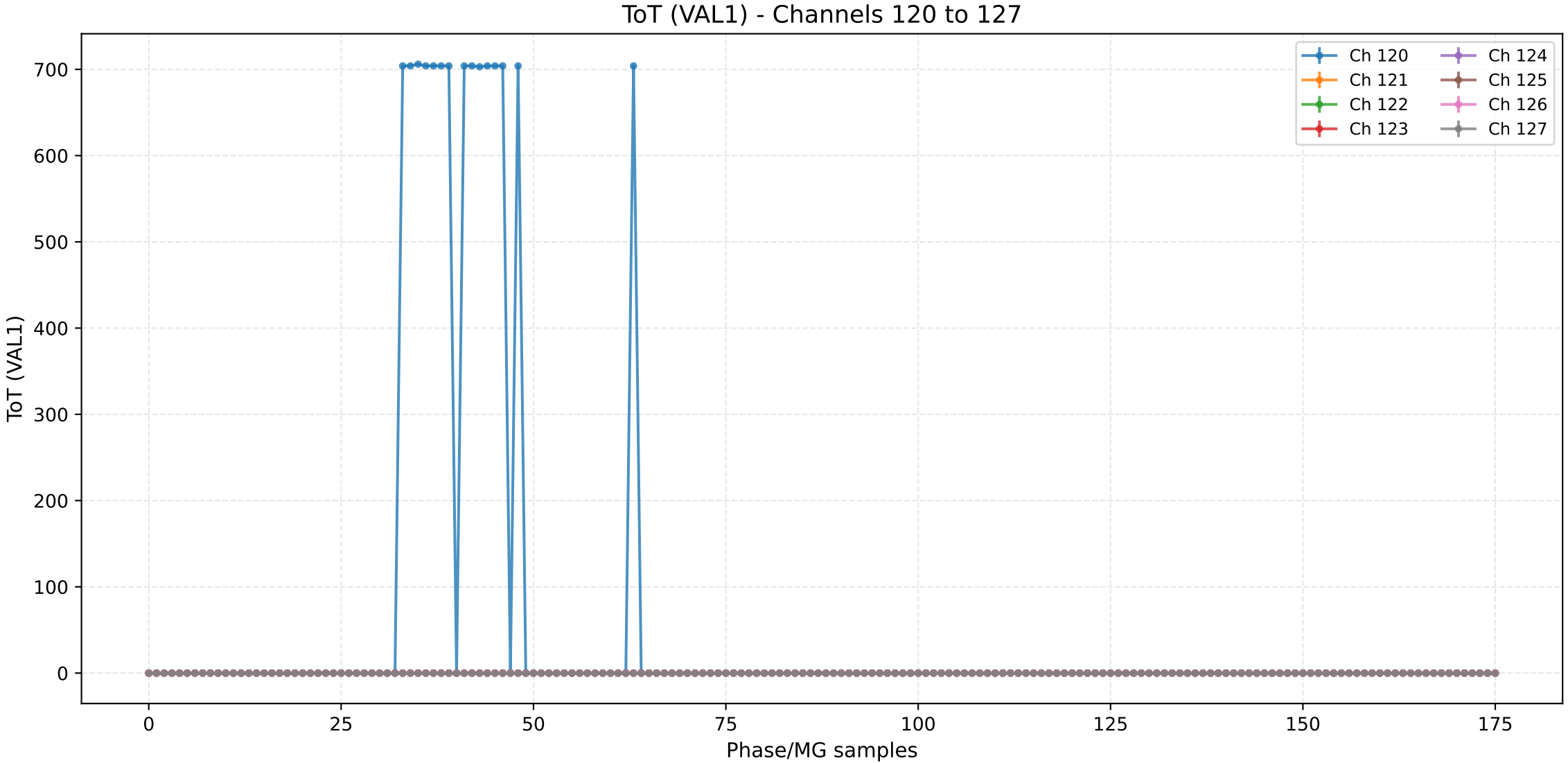

ToT (VAL1) - Channels 80 to 87
Ch 80
Ch 81
Ch 82
Ch 83
Ch 84
Ch 85
Ch 86
Ch 87
ToT (VAL1)
0
100
200
300
400
500
600
700
0
25
50
75
100
125
150
175
Phase/MG samples

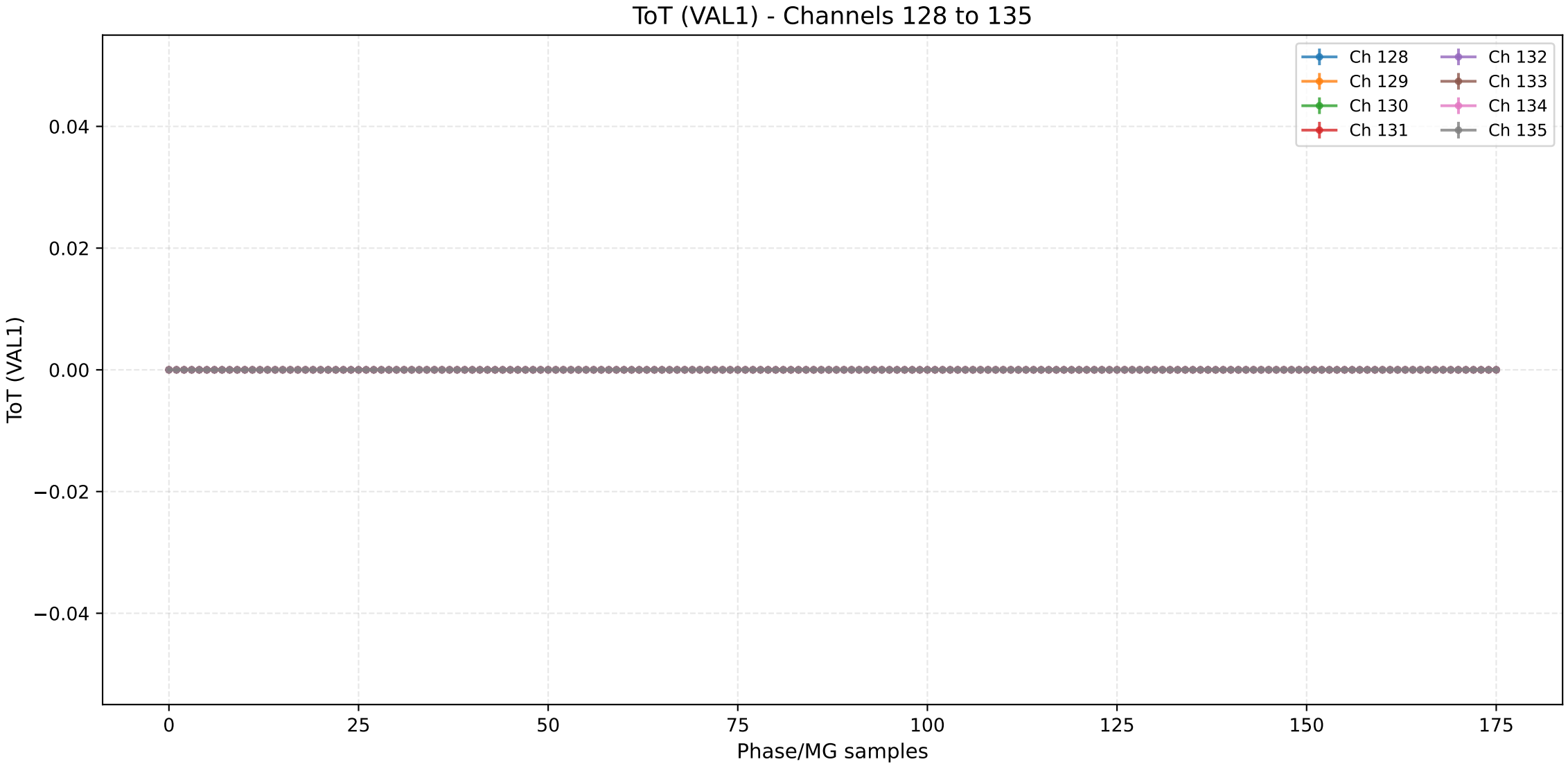

ToT (VAL1) - Channels 88 to 95
Ch 88
Ch 89
Ch 90
Ch 91
Ch 92
Ch 93
Ch 94
Ch 95
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

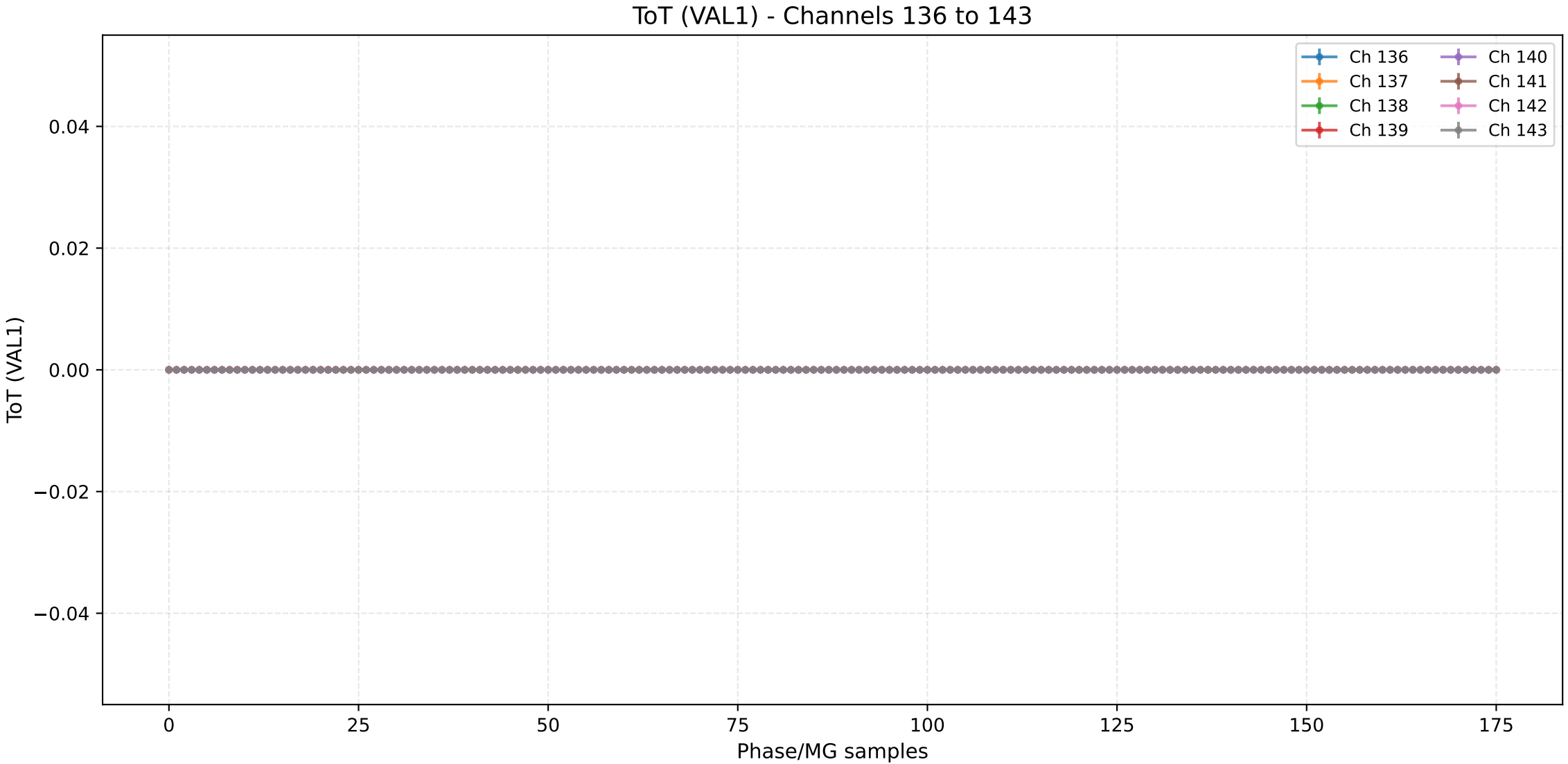

ToT (VAL1) - Channels 96 to 103
Ch 96
Ch 97
Ch 98
Ch 99
Ch 100
Ch 101
Ch 102
Ch 103
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

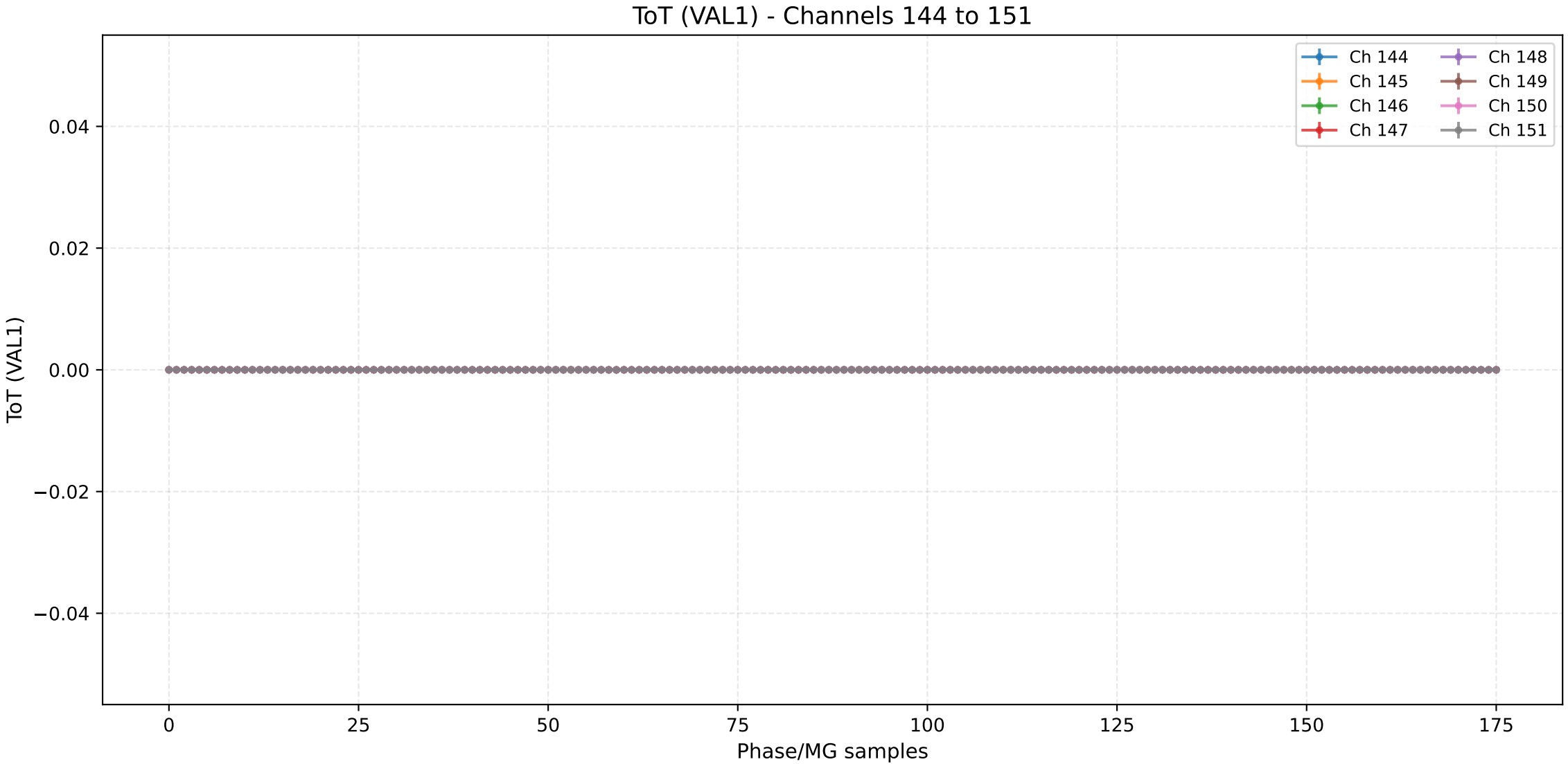

ToT (VAL1) - Channels 104 to 111
Ch 104
Ch 105
Ch 106
Ch 107
Ch 108
Ch 109
Ch 110
Ch 111
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

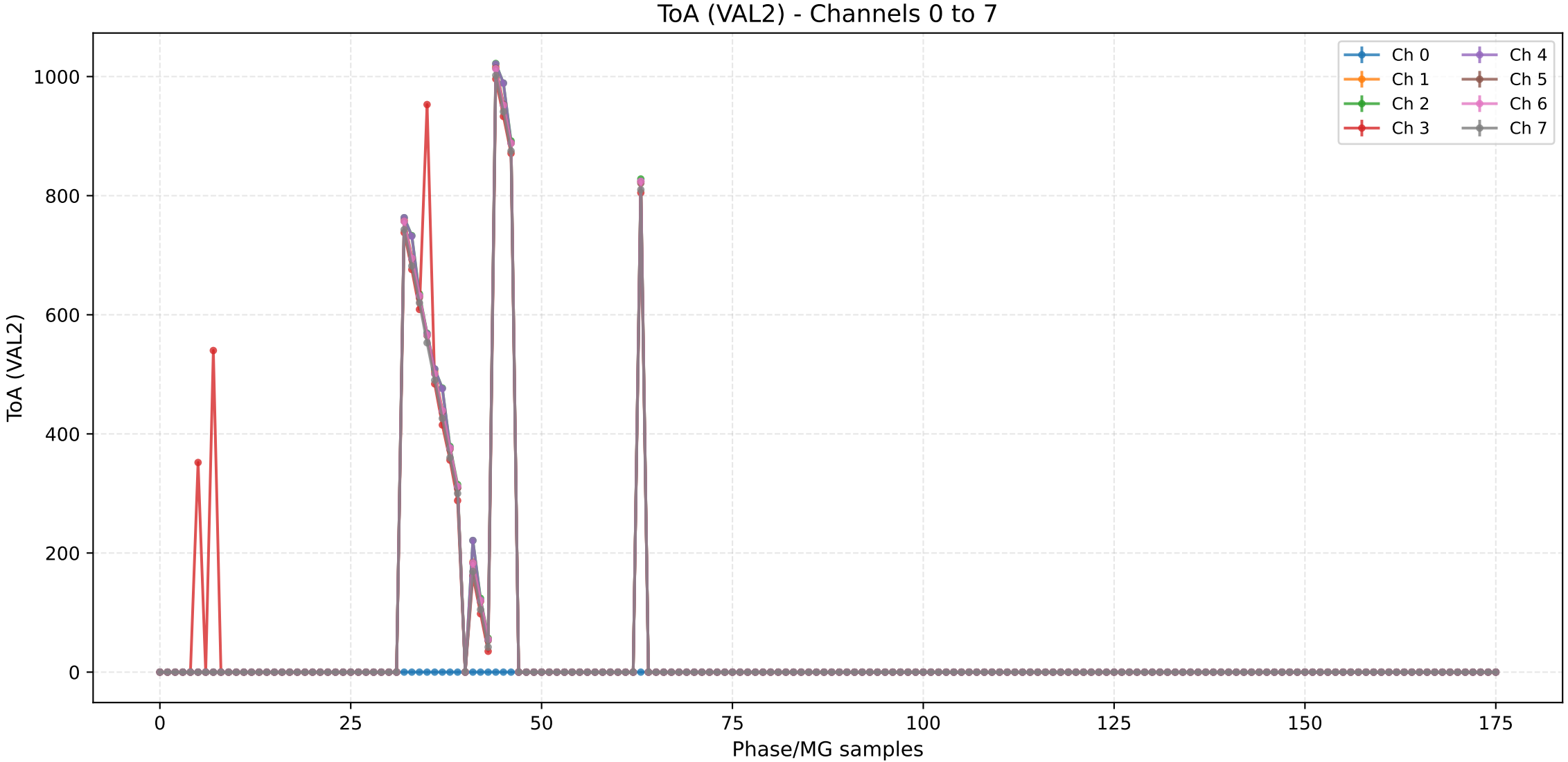

ToT (VAL1) - Channels 112 to 119
Ch 112
Ch 113
Ch 114
Ch 115
Ch 116
Ch 117
Ch 118
Ch 119
ToT (VAL1)
Phase/MG samples
0
10
20
30
40
50
0
25
50
75
100
125
150
175

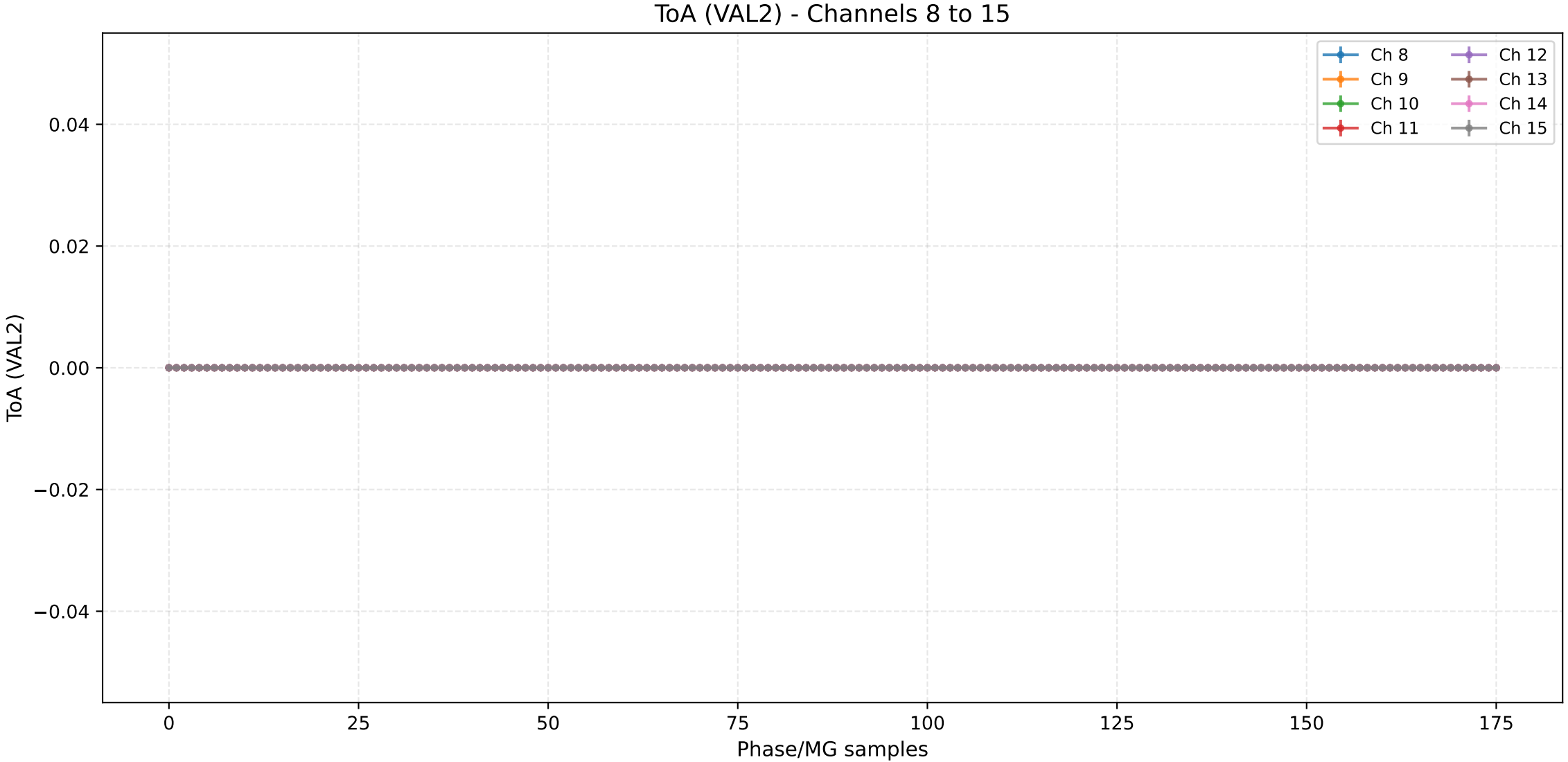

ToT (VAL1) - Channels 120 to 127
Ch 120
Ch 121
Ch 122
Ch 123
Ch 124
Ch 125
Ch 126
Ch 127
ToT (VAL1)
0
100
200
300
400
500
600
700
0
25
50
75
100
125
150
175
Phase/MG samples

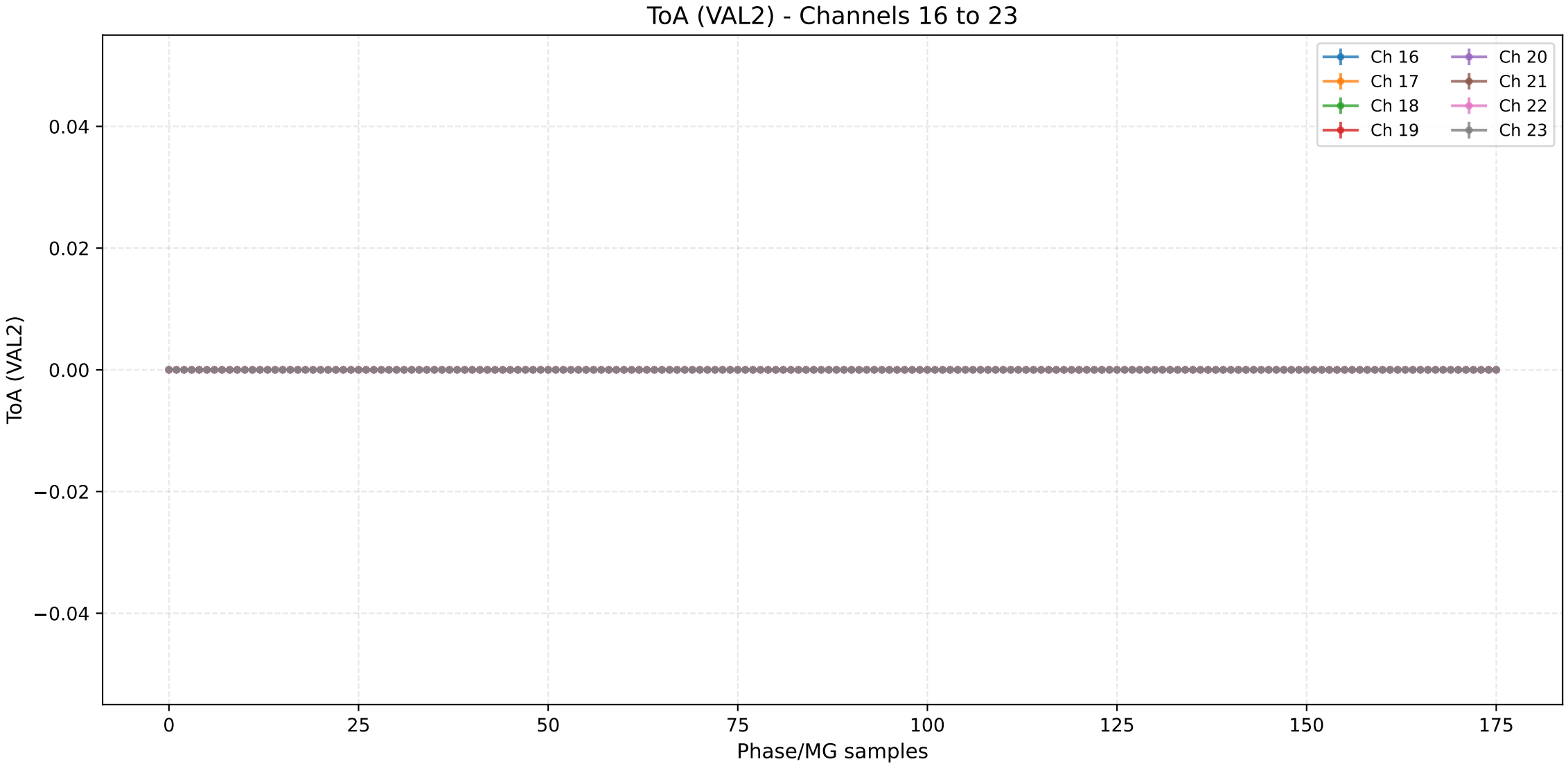

ToT (VAL1) - Channels 128 to 135
Ch 128
Ch 129
Ch 130
Ch 131
Ch 132
Ch 133
Ch 134
Ch 135
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

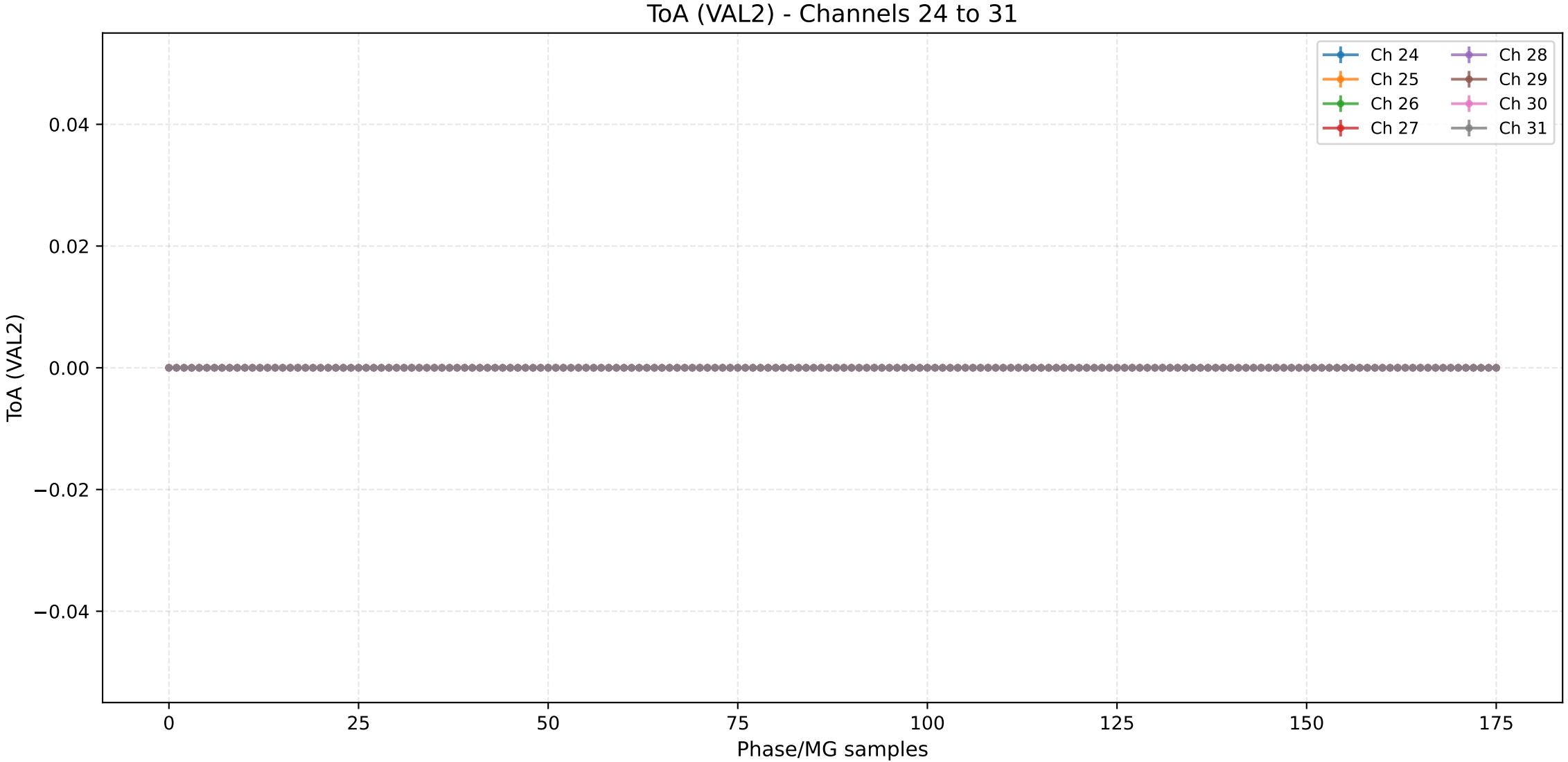

ToT (VAL1) - Channels 136 to 143
Ch 136
Ch 137
Ch 138
Ch 139
Ch 140
Ch 141
Ch 142
Ch 143
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

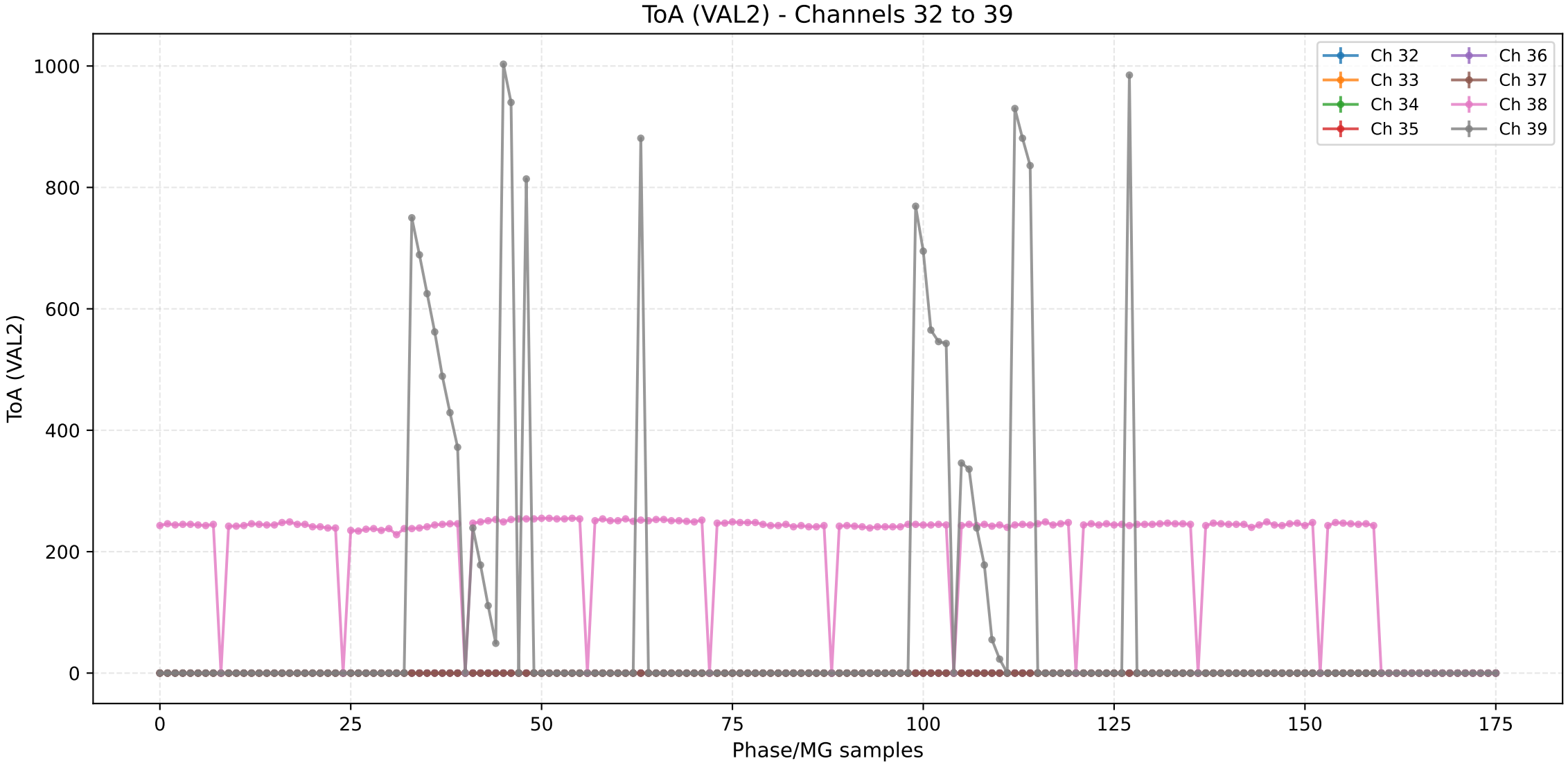

ToT (VAL1) - Channels 144 to 151
Ch 144
Ch 145
Ch 146
Ch 147
Ch 148
Ch 149
Ch 150
Ch 151
0.04
0.02
0.00
−0.02
−0.04
ToT (VAL1)
0
25
50
75
100
125
150
175
Phase/MG samples

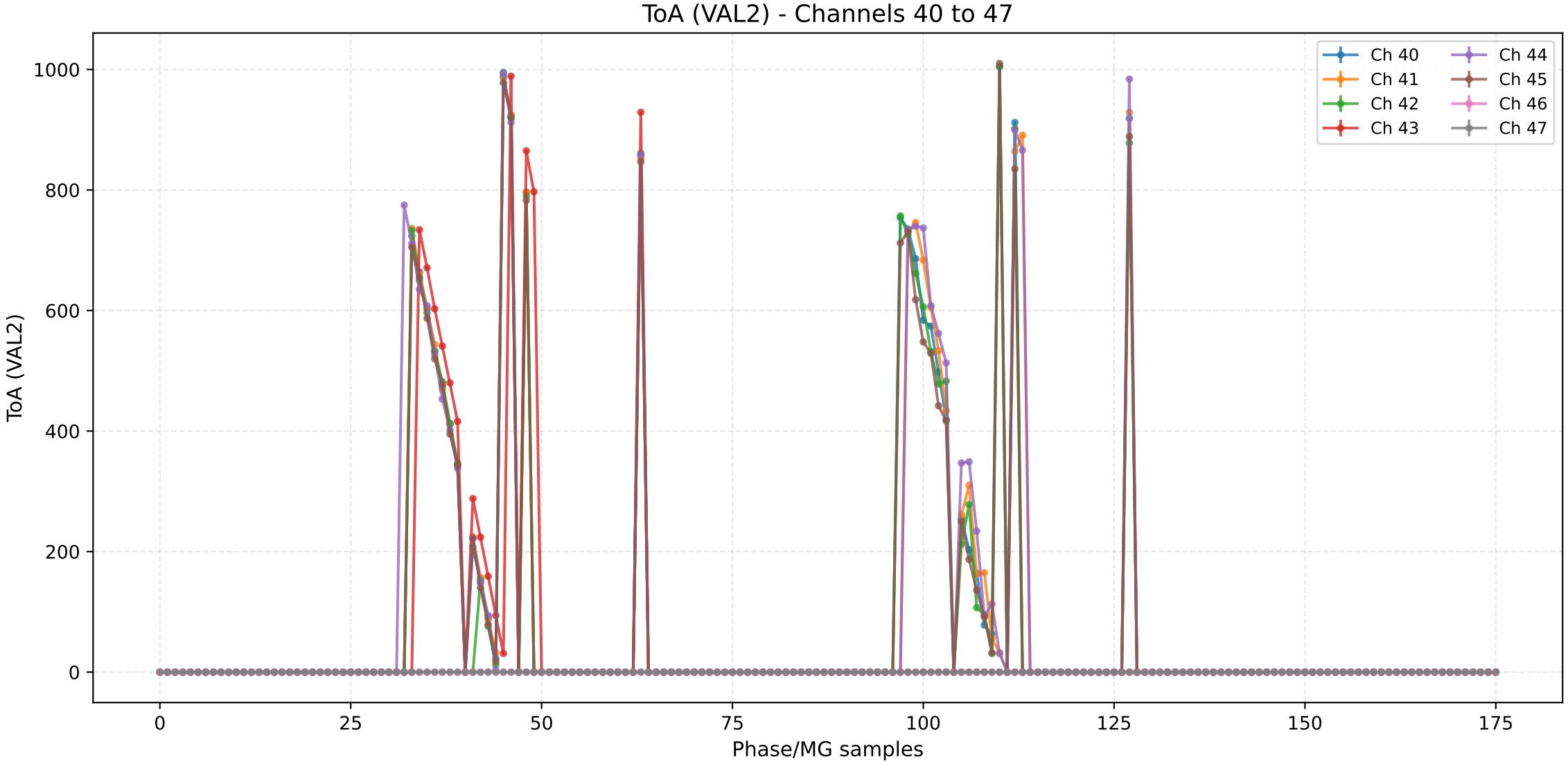

ToA (VAL2) - Channels 0 to 7
Ch 0
Ch 1
Ch 2
Ch 3
Ch 4
Ch 5
Ch 6
Ch 7
ToA (VAL2)
0
200
400
600
800
1000
0
25
50
75
100
125
150
175
Phase/MG samples

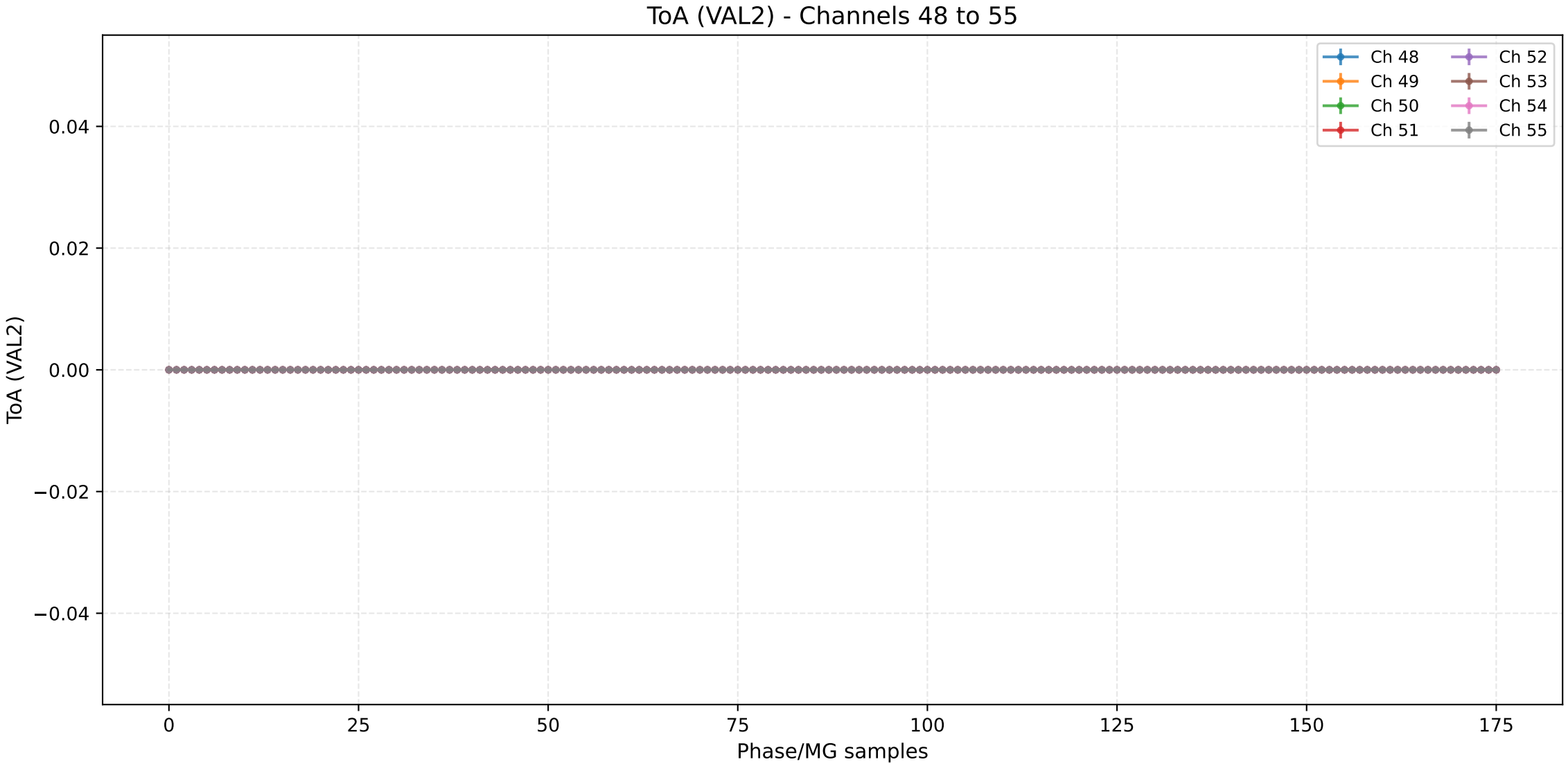

ToA (VAL2) - Channels 8 to 15
Ch 8
Ch 9
Ch 10
Ch 11
Ch 12
Ch 13
Ch 14
Ch 15
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples

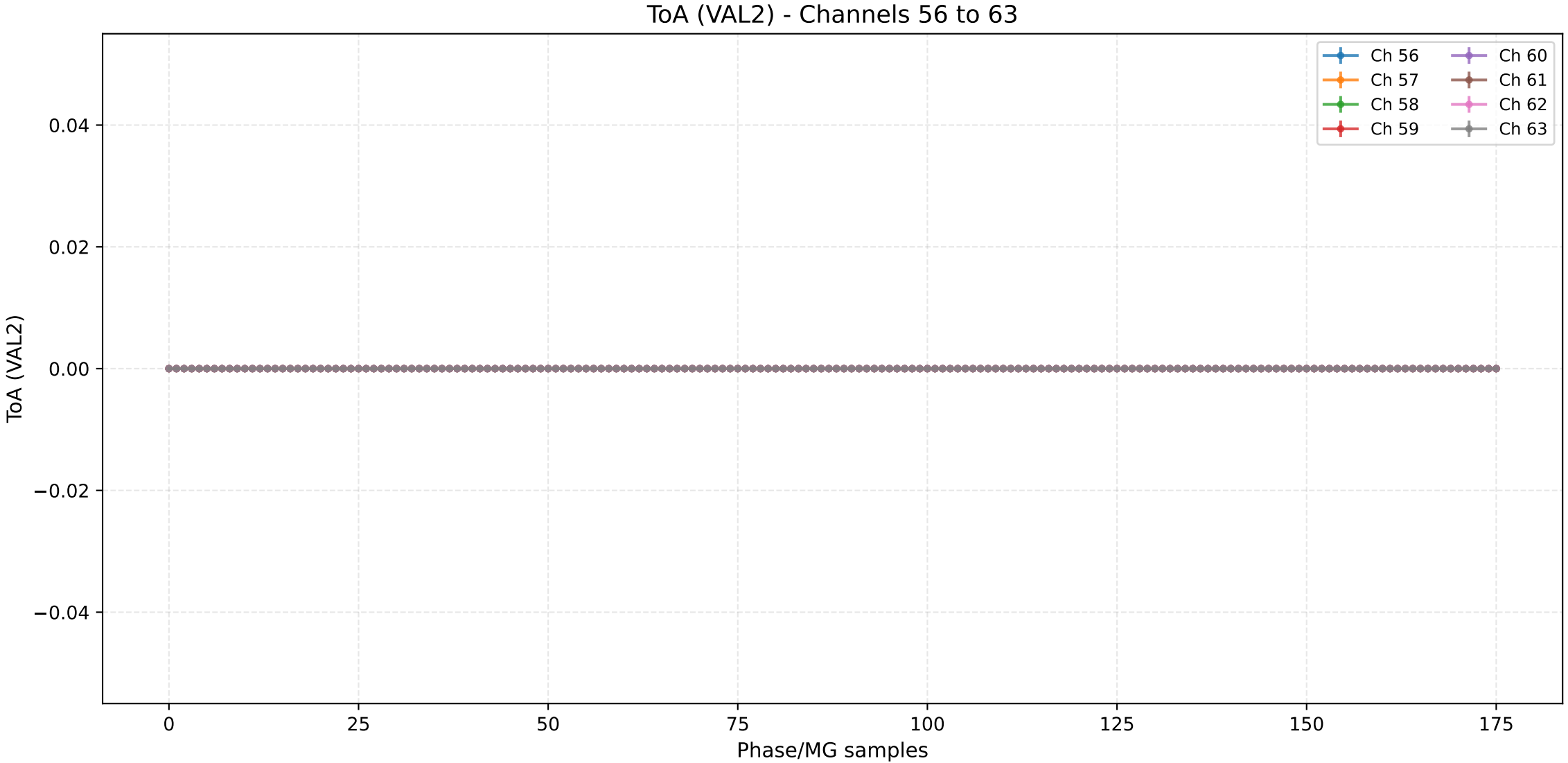

ToA (VAL2) - Channels 16 to 23
Ch 16
Ch 17
Ch 18
Ch 19
Ch 20
Ch 21
Ch 22
Ch 23
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples

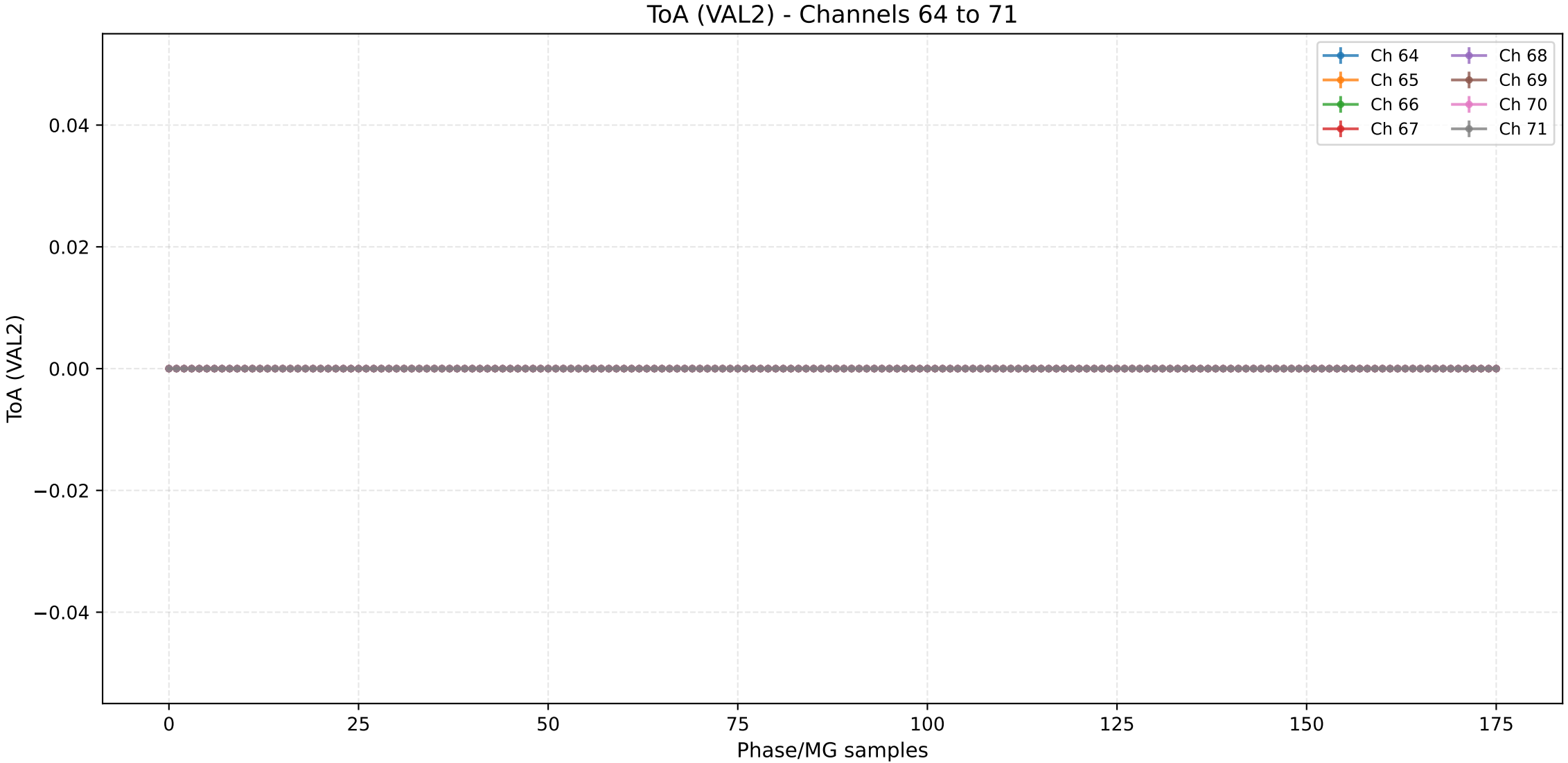

ToA (VAL2) - Channels 24 to 31
Ch 24
Ch 25
Ch 26
Ch 27
Ch 28
Ch 29
Ch 30
Ch 31
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples

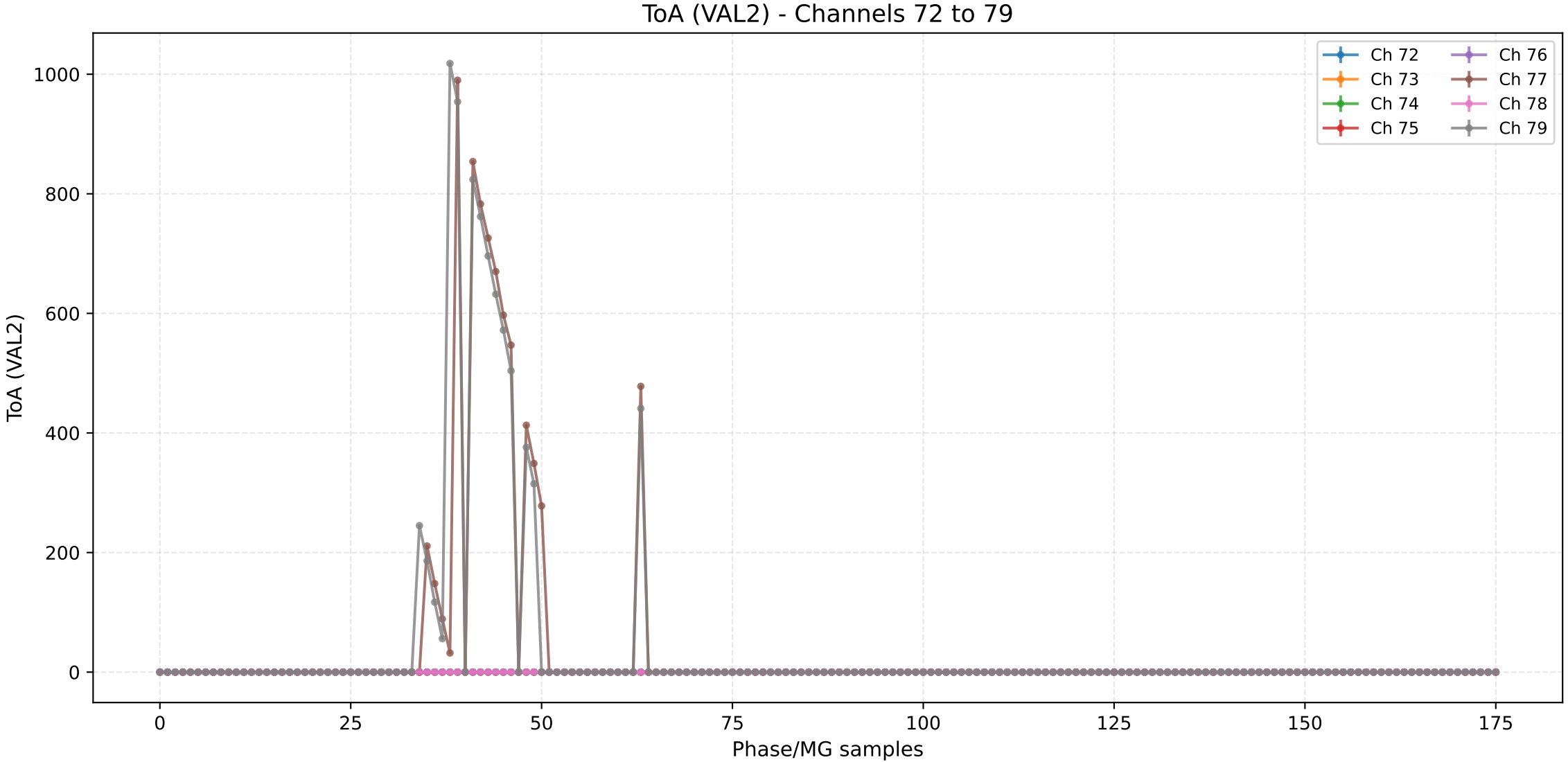

ToA (VAL2) - Channels 32 to 39
ToA (VAL2)
Phase/MG samples
Ch 32
Ch 33
Ch 34
Ch 35
Ch 36
Ch 37
Ch 38
Ch 39
0
200
400
600
800
1000
0
25
50
75
100
125
150
175

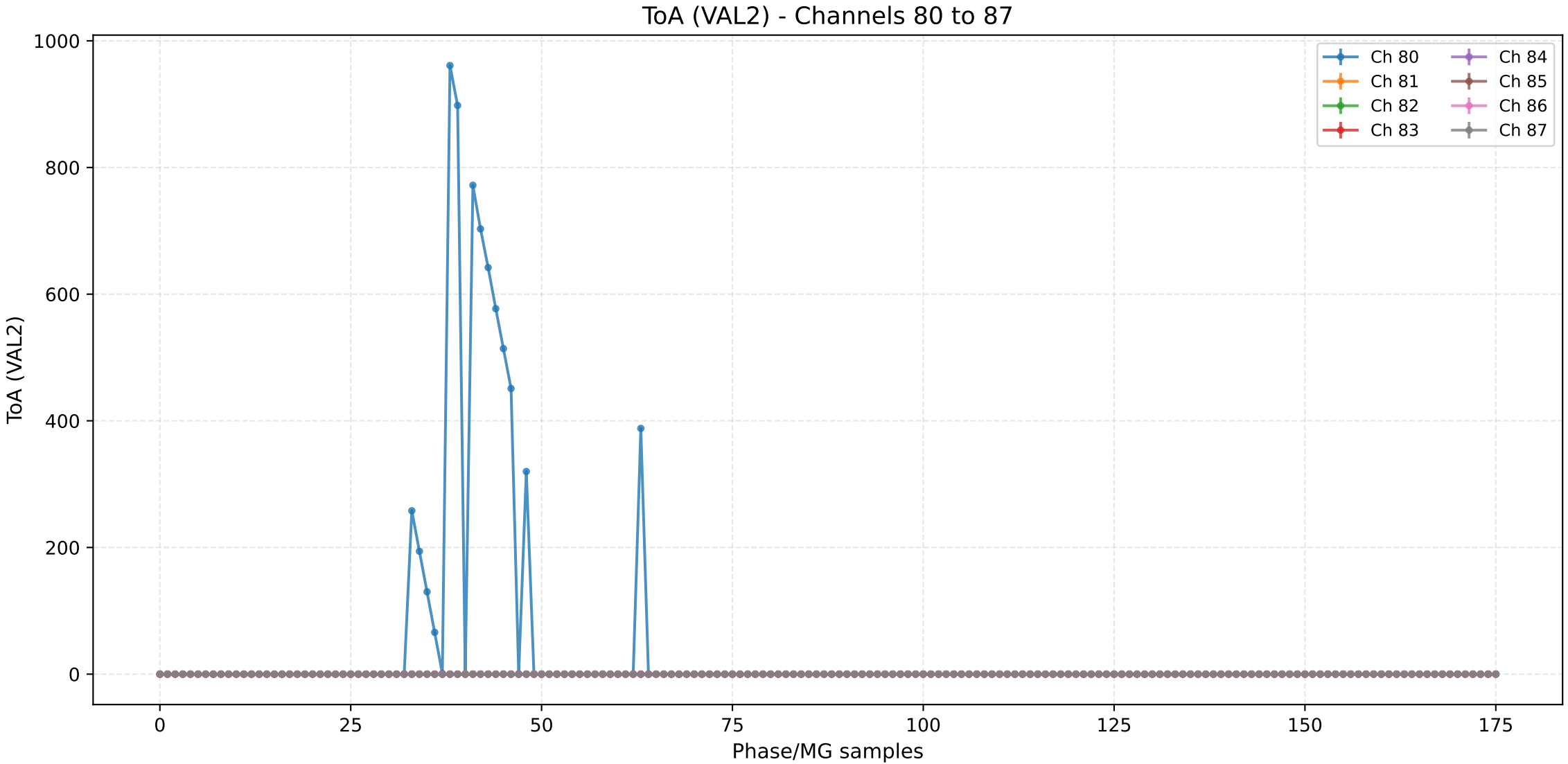

ToA (VAL2) - Channels 40 to 47
ToA (VAL2)
Phase/MG samples
Ch 40
Ch 41
Ch 42
Ch 43
Ch 44
Ch 45
Ch 46
Ch 47
0
200
400
600
800
1000
0
25
50
75
100
125
150
175

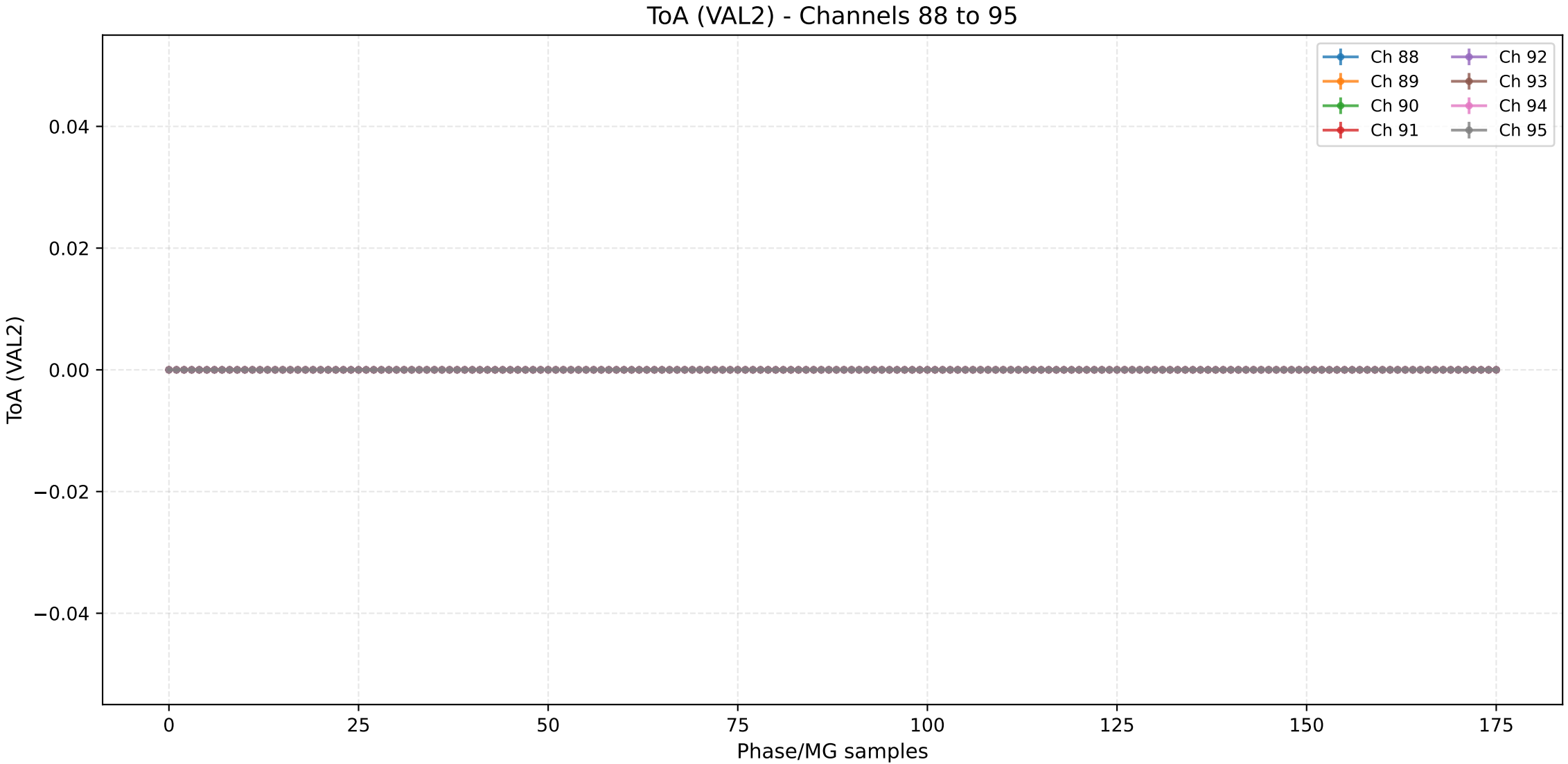

ToA (VAL2) - Channels 48 to 55
Ch 48
Ch 49
Ch 50
Ch 51
Ch 52
Ch 53
Ch 54
Ch 55
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples

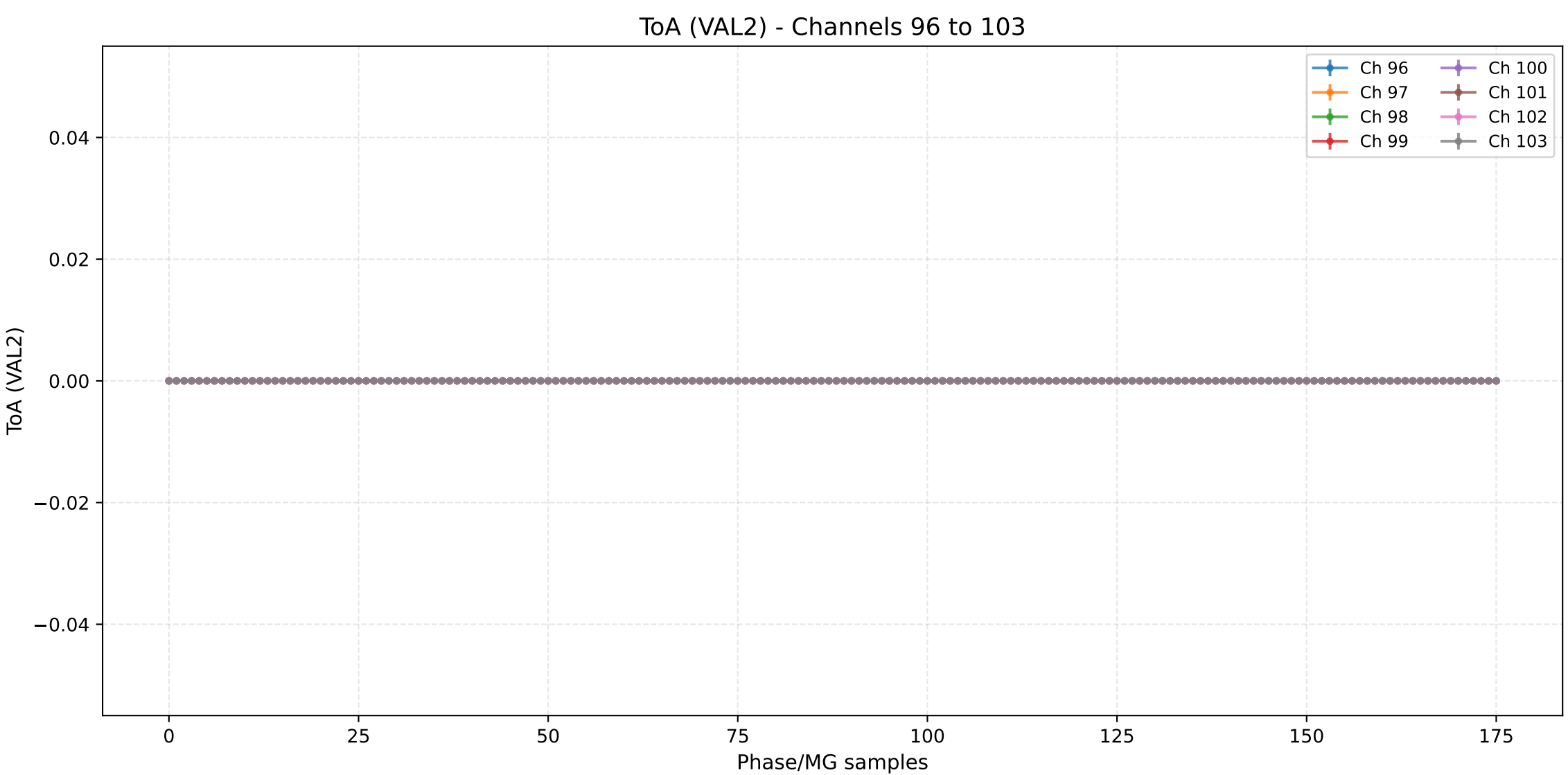

ToA (VAL2) - Channels 56 to 63
Ch 56
Ch 57
Ch 58
Ch 59
Ch 60
Ch 61
Ch 62
Ch 63
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples

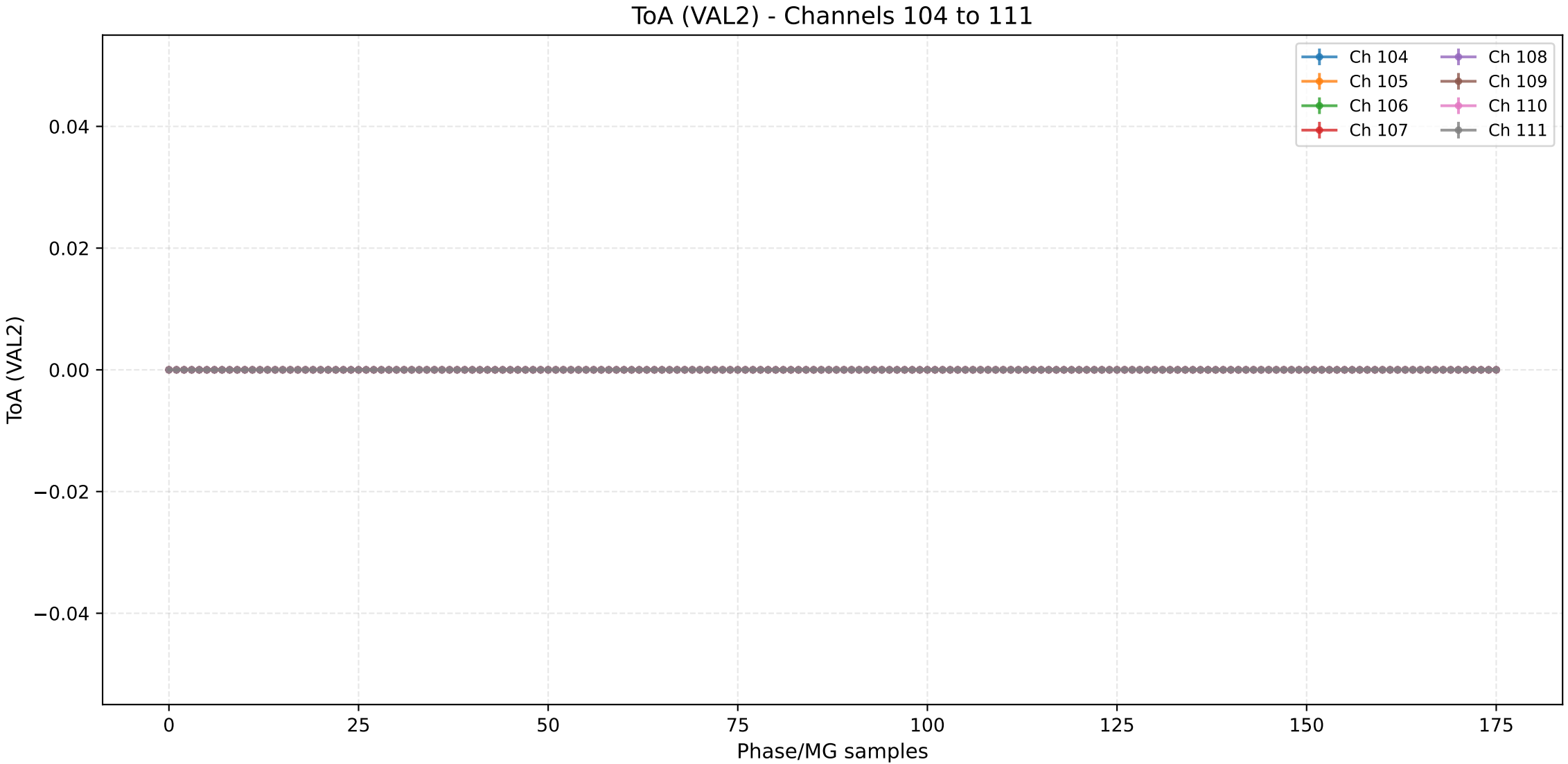

ToA (VAL2) - Channels 64 to 71
Ch 64
Ch 65
Ch 66
Ch 67
Ch 68
Ch 69
Ch 70
Ch 71
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples

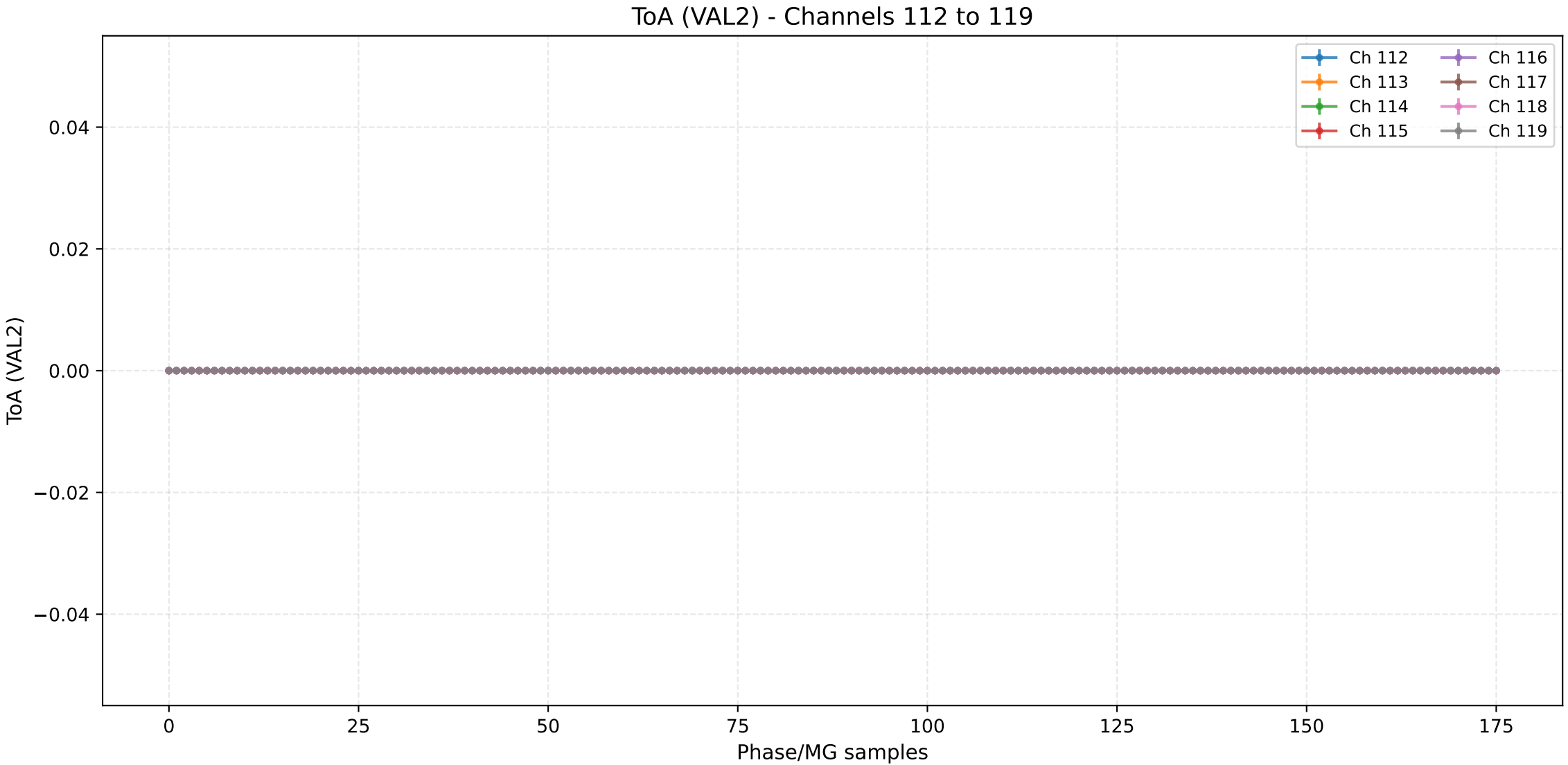

ToA (VAL2) - Channels 72 to 79
Ch 72
Ch 73
Ch 74
Ch 75
Ch 76
Ch 77
Ch 78
Ch 79
ToA (VAL2)
0
200
400
600
800
1000
0
25
50
75
100
125
150
175
Phase/MG samples

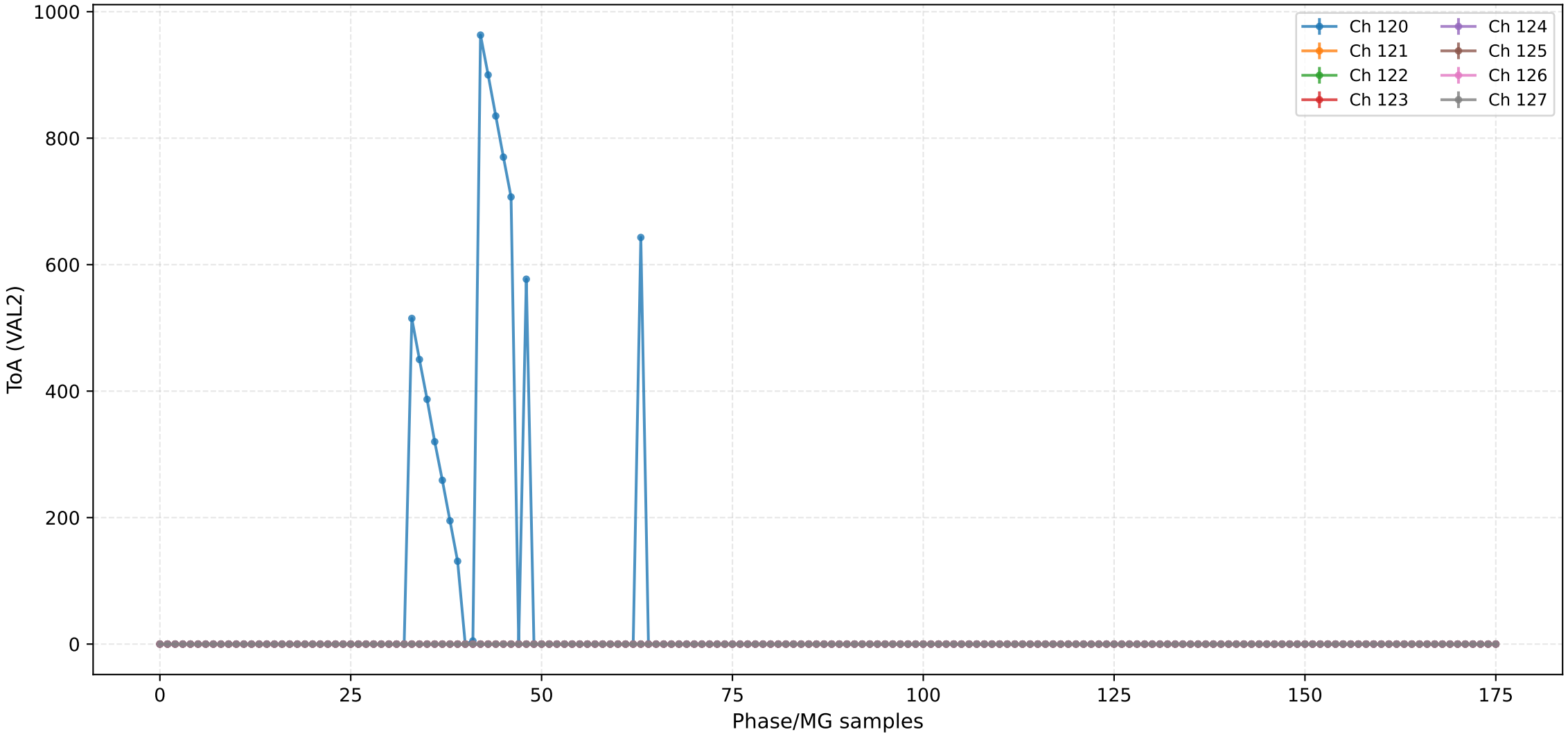

ToA (VAL2) - Channels 80 to 87
ToA (VAL2)
Phase/MG samples
Ch 80
Ch 81
Ch 82
Ch 83
Ch 84
Ch 85
Ch 86
Ch 87
0
200
400
600
800
1000
0
25
50
75
100
125
150
175

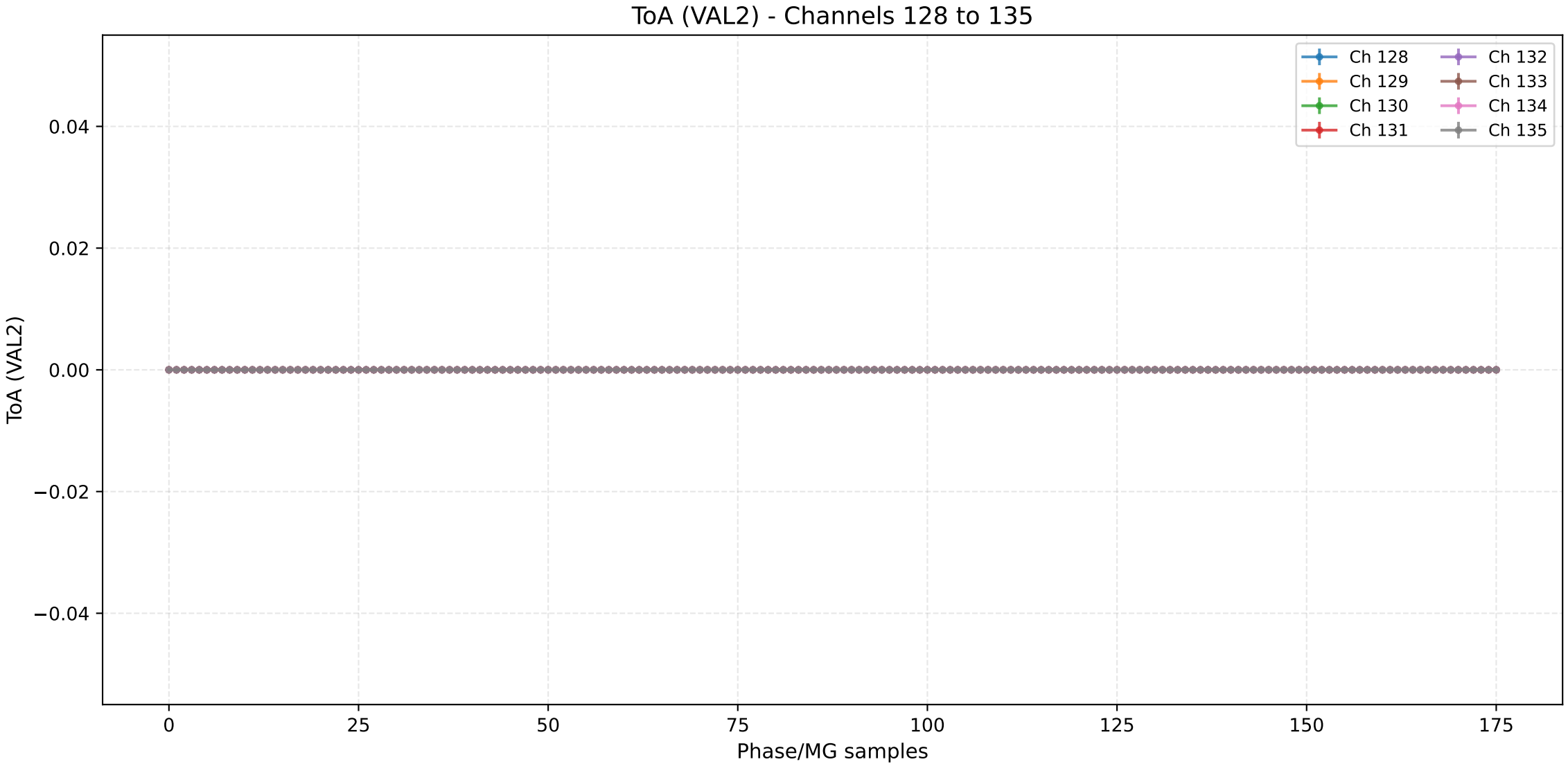

ToA (VAL2) - Channels 88 to 95
Ch 88
Ch 89
Ch 90
Ch 91
Ch 92
Ch 93
Ch 94
Ch 95
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples

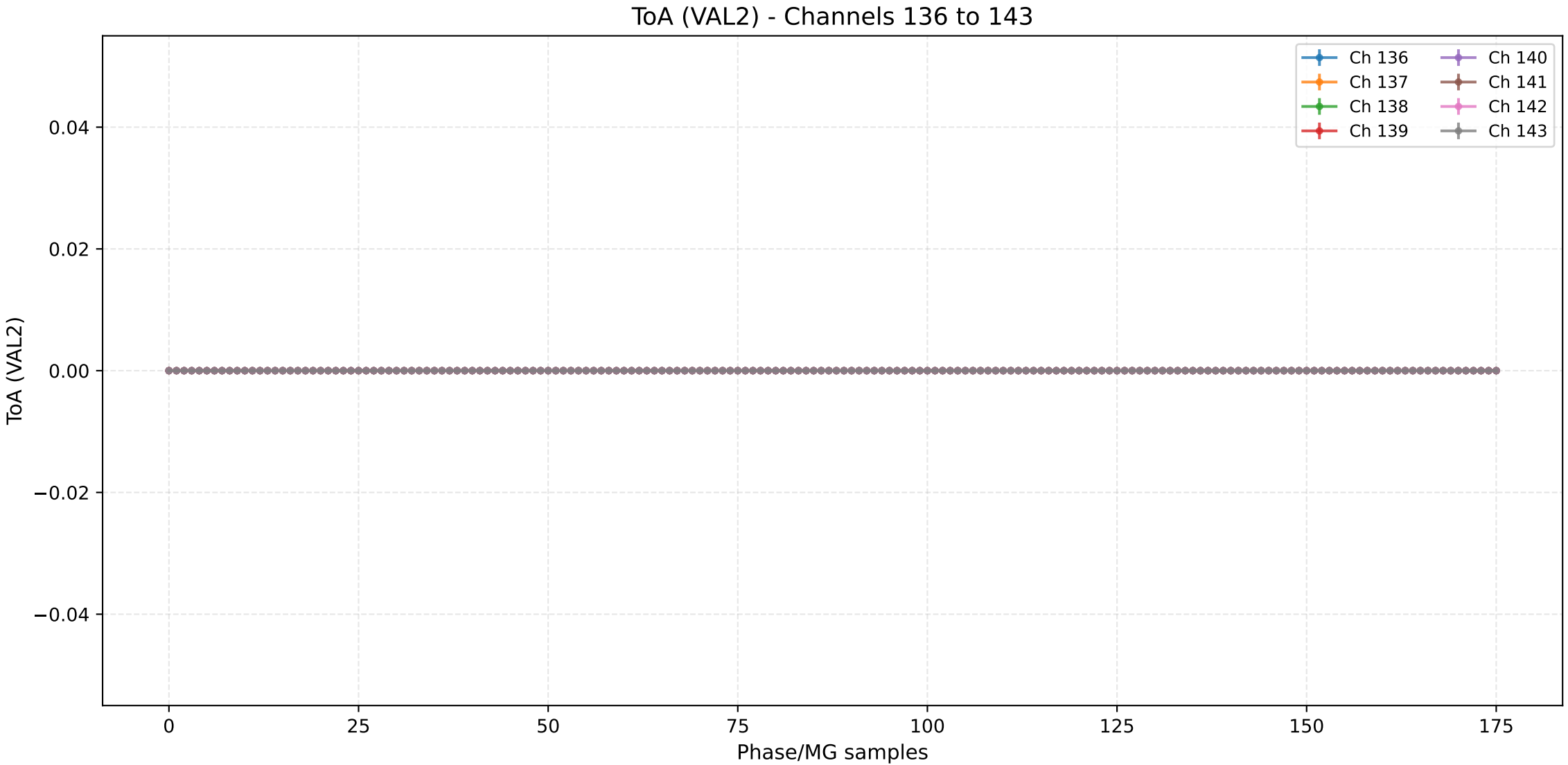

ToA (VAL2) - Channels 96 to 103
Ch 96
Ch 97
Ch 98
Ch 99
Ch 100
Ch 101
Ch 102
Ch 103
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples

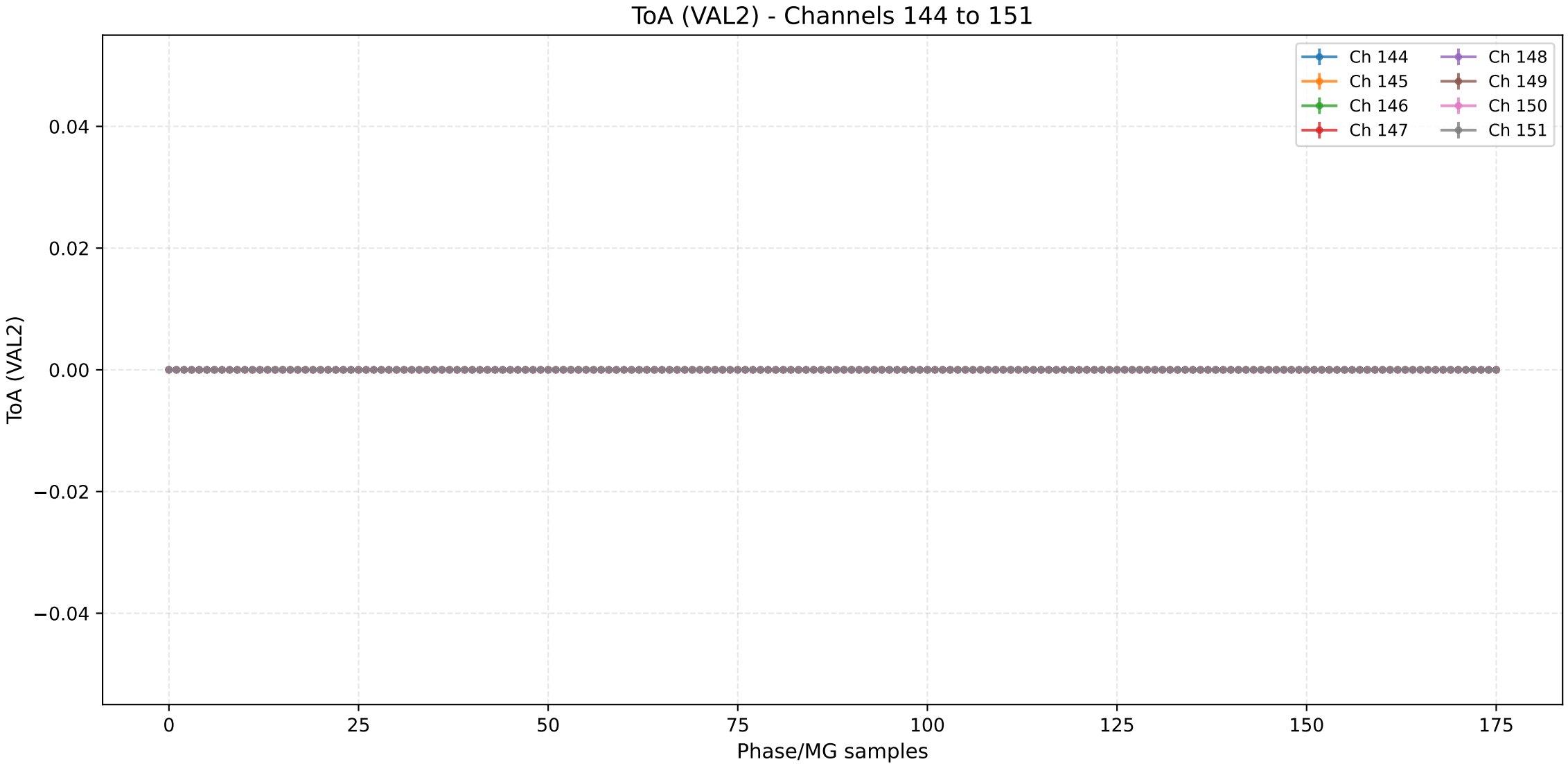

ToA (VAL2) - Channels 104 to 111
Ch 104
Ch 105
Ch 106
Ch 107
Ch 108
Ch 109
Ch 110
Ch 111
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples


ToA (VAL2) - Channels 112 to 119
Ch 112
Ch 113
Ch 114
Ch 115
Ch 116
Ch 117
Ch 118
Ch 119
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples


ToA (VAL2) - Channels 120 to 127
ToA (VAL2)
Phase/MG samples
Ch 120
Ch 121
Ch 122
Ch 123
Ch 124
Ch 125
Ch 126
Ch 127
0
200
400
600
800
1000
0
25
50
75
100
125
150
175


ToA (VAL2) - Channels 128 to 135
Ch 128
Ch 129
Ch 130
Ch 131
Ch 132
Ch 133
Ch 134
Ch 135
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples


ToA (VAL2) - Channels 136 to 143
Ch 136
Ch 137
Ch 138
Ch 139
Ch 140
Ch 141
Ch 142
Ch 143
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples


ToA (VAL2) - Channels 144 to 151
Ch 144
Ch 145
Ch 146
Ch 147
Ch 148
Ch 149
Ch 150
Ch 151
0.04
0.02
0.00
−0.02
−0.04
ToA (VAL2)
0
25
50
75
100
125
150
175
Phase/MG samples

Injection Scan Results
==

Script: 205_Injection v1.0
Date: 2025-12-13 00:21:48

Configuration:
- Total ASICs: 2
- Injection DAC: 850
- Machine Gun: 10
- Scan Pack: 2
- Scan Channels: 16
- 2.5V Injection: True
- High Range Injection: False

Analog Settings:
- RF: 0x-1
- CF: 0x-1
- CC: 0x-1
- CF Comp: 0x-1

Output Files:
- 205_Injection_asic2_injdac850_mg10_pack2_chn16_val0.csv
- 205_Injection_asic2_injdac850_mg10_pack2_chn16_val1.csv
- 205_Injection_asic2_injdac850_mg10_pack2_chn16_val2.csv